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PROFESSIONAL INCOME OF ENGINEERS
1989

A Report of an Annual Survey
Conducted by the

ENGINEERING MANPOWER COMMISSION

of the

American Association of Engineering Societies, Inc.
415 Second Street, NE
Washington, DC 20002

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ISBN # 0-87615-143-8

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EMC conducts annual surveys of industry and schools of engineering, monitors trends in the supply of and demand for engineers, and produces annual reports on engineering enrollments, degrees, and salaries. In addition to its statistical studies, EMC also produces the *Engineering Manpower Bulletin,* which assesses trends in the engineering workforce including participation in the profession by women and ethnic minorities.

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ACKNOWLEDGEMENTS

The Engineering Manpower Commission wishes to express its grateful appreciation for the cooperation of the hundreds of organizations that provided the data on which this report is based.

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PROFESSIONAL INCOME OF ENGINEERS, 1989

INTRODUCTION

This is the 23rd in a series of Engineering Manpower Commission studies of the salaries of engineers in the United States. As in our previous salary surveys, the data were gathered from employers, who submitted summaries of the base compensation of their engineers, classified by levels of experience, supervisory responsibility, and academic preparation. By classifying the participating organizations, the survey also provides comparisons of salaries among differing industrial sectors, geographic regions, and sizes of employers.

EMC salary surveys do *not* provide data on salary variations among the various engineering disciplines, such as differences in median pay among civil, electrical, and mechanical engineers. Obtaining these details would raise the burden that the survey places on its participants to unacceptable levels. It would also raise complex problems of classification, because the labels that are applied to engineering education programs do not always accurately describe the graduates' subsequent work. Where a degree of correspondence exists between particular engineering disciplines and employment sectors, EMC's data can provide some clues about the salaries that may be associated with different kinds of engineering training. For example, although this report does not report salaries for chemical engineers *per se*, it does report salaries paid to engineers of all kinds by the chemicals industry. But for disciplines like mechanical engineering (whose graduates may be found in virtually every sort of technical workplace), or for a sector like the federal government (which hires all types of engineers), these linkages between training and subsequent employment do not apply.

The data reflect base salaries as of February 1, 1989. Responding organizations were instructed to exclude all irregular forms of compensation, such as one-time bonuses, overtime payments, stock options, etc. (however, beginning with this survey, EMC is obtaining information on the proportion of engineers who receive special incentive compensation; see below). Data were requested for all full-time engineering graduates, including those in nontechnical or managerial positions (some employers advised EMC, as they have in the past, that top management personnel with engineering backgrounds were not included in their responses). Occasionally, data were also provided for non-graduates classed by their employers as fully qualified engineers; such cases, which are infrequent, were treated as equivalent to engineers with B.S. degrees.

Salaries are presented in the form of statistical tabulations, with details for upper and lower deciles, upper and lower quartiles, medians, and means (all of these terms are explicitly defined below). These data are spread across 18 levels of experience, based on the number of years since attainment of the bachelor's degree (age is used to estimate experience in cases where data on the year of graduation is not available). In addition, summaries of these statistics across all levels of experience are included. Both raw salary statistics and smoothed-curve estimates across the experience levels are reported. Graphed maturity curves based on the smoothed results are provided for all tabulations.

The major technical change in this year's salary survey was to significantly reduce the period of time allowed for completion of responses by participants, in order to support earlier publication of the results. This change was accomplished with only minor losses in the number of engineers in industry represented by the data (from 111,907 in 1988 to 111,150 in 1989). The number of participating companies increased (from 267 in 1988 to 279 in 1989). Coverage of government also improved (from 4,309 in 1988 to 10,112 in 1989).

Other changes adopted in recent years are continued in the 1989 survey. Tabulations include raw salary statistics as well as EMC's usual smoothed-curve results, and technical refinements have been incorporated in our curve-smoothing methods. Details about these and other modifications of the methods used by EMC for these studies are provided below.

The Engineering Manpower Commission has been engaged in studies of engineering compensation for over 35 years. EMC's salary reports began in 1953 with *Professional Income of Engineers*. The *Special Industry Report*, which began to appear in 1966, adds details for those with B.S., M.S. or Ph.D degrees to the materials in this volume. Originally, EMC's salary surveys were done every three years, then every two years; beginning in 1980, they began to be issued annually. EMC also conducts biennial surveys of the compensation of engineering educators; such a study was done in 1988 *(Salaries of Engineers in Education)*. In addition to these detailed statistical volumes, a summary of the results of this survey, with special data on trends over time, is available in "Engineering Salaries, 1989," issue number 96 (July, 1989) of the *Engineering Manpower Bulletin*. EMC also provides custom tabulations of its salary data base, such as frequency distributions of the data across salary brackets or reports on other groupings of the participating organizations, by special request. For prices and information on orders, see the inside back cover of this report.

The goal of EMC's salary studies is to determine current levels of compensation for engineers and to report on trends over time. EMC does not evaluate individual salary situations, nor does it advise employers on rates that should be paid for specific positions. Indeed, our own data demonstrate that for any specific combination of employment sector, supervisory responsibilities, education, and experience, variations between the top and bottom salaries reported for the position (as measured by high and low deciles) are likely to be as great as the distinctions introduced by differences in any of the other factors. In short, variations in engineering pay *within* specific matched positions can be as large as variations *between* positions, even when the latter distinctions entail substantial differences in employment sectors, education, responsibility, or experience. On the whole, individual salaries are influenced by many considerations, including the economic conditions of particular industries and firms, and the skill, performance, and negotiating ability of particular people.

SURVEY METHODOLOGY

Questionnaires were mailed in February, 1989 to EMC's national list of engineering employers. This listing is updated every year, using *Peterson's Guide to Engineering, Science, and Computer Jobs* (Princeton: Peterson's Guides, published annually), industry and trade directories, employment notices, and the Engineering Manpower Commission's internal records of participants in past surveys.

Copies of the survey instruments are provided in the appendices to this report. Usage of EMC's traditional matrix-style survey forms has declined greatly. Most smaller organizations--those with 50 or fewer engineers--now use our alternative "short form" questionnaires, first introduced in 1987, which provide a more convenient way to report their data. Most larger organizations are now providing their information in the form of simple ASCII text files on floppy disks. Since 1987 when EMC first experimented with this form of response, its use has steadily increased; in 1989, information on 40,965 engineers was provided in machine-readable form. We will continue to urge participants, especially the largest ones, to submit their responses this way, as it substantially reduces labor burdens for both the respondents and ourselves, and it helps to guard against errors from EMC's data entry. We will continue to provide the older matrix-style forms as an alternative for our respondents, however, as long as significant numbers of participants make use of them.

As noted earlier, responses to the survey representing 111,150 engineers were obtained from 279 private sector organizations. In addition, EMC also obtained data on the salaries of 10,112 engineers employed by 30 agencies of federal, state or local governments. Further processing of the data included these steps:

1. Preliminary tabulations were run to confirm manual counts of the number of responding organizations and the number of engineers represented by the data for each company and industrial sector. Data provided by participants are reviewed to see if implausibly large numbers of engineers have been reported as inexperienced and highly paid, or very experienced and poorly paid, which could be a sign of errors on the respondent's part in compiling the information. Such problems are rare, but in 1989 one such case was discovered, confirmed with the participating organization, and corrected.

2. Participants were assigned to sectors on the basis of their responses to an item on the survey forms that asked each organization to indicate how it should be classified. Many participants were classed in two or more sectors (see the appended list of responding organizations for details). Final sectoral groups were formed only if at least five responding organizations and at least 200 engineers were represented. Participants who did not fall into a conventional industry category, or whose preferred sectors could not be formed, were grouped into three residual categories: Other Durable Goods Manufacturers, Other Nondurable Goods Manufacturers, and Other Non-Manufacturers. The last category accounted for less than 100 engineers, so no separate analysis was provided for it, but those cases are included in summary presentations for All Non-Manufacturing Industries and All Industries. See the table "Distribution of Responses, 1989," below, for a list of the final sectors. In addition, the organizations included in each sector are identified in the appendices.

3. Within sectors, no one responding organization was permitted to account for more than one-half (50 percent) of the data points--number of engineering salaries--reported for the sector. Weighting was used to carry out these adjustments, which have the effect of limiting the influence of any single organization on the results of the survey. In most cases, the actual effects of these adjustments were negligible, because weighted organizations only rarely vary greatly from others in the same sector in their salary practices.

4. Within sectors, further divisions of the data to isolate such subgroups as supervisors, engineers with master's degrees, etc., can have the effect of reducing the size of data pools below the 200-case minimal standard. In such cases, no salary statistics were generated.

5. Across sectors, in estimates of combined-industry salaries for such groups as electric and gas utilities, all manufacturers, etc., the data were weighted again to bring the sector-by-sector distribution of engineers into line with the actual distribution of engineers in the work force. As in other recent EMC salary surveys, the basis for this second set of weights is the U.S. Bureau of Labor Statistics' industry-and-occupation matrix. The matrix is a computer-based model maintained by the Office of Economic Growth at BLS, and accounted for some 1.3 million employed engineers as of 1986. The table, below, on the distribution of responses includes the BLS data for the numbers of engineers in the several sectors. Also, weights for the "All Industries" summary are reported. It is apparent that EMC's data base, which is not a random sample, roughly parallels the actual engineering labor force in its distribution among the major types of industries. The unweighted data tend to overrepresent the chemical and utility sectors, and to underrepresent the automotive, non-electric machinery, and precision instruments sectors; weights reduce these biases as well as a number of less prominent differences between EMC's data base and the distribution of engineers, as estimated by BLS, in the U.S. industrial economy.

6. The raw medians, quartiles and other percentiles were developed by straight-line interpolation within salary brackets, rounded to the nearest $50. The median, or 50th percentile, provides an illustration. The median for any ranked distribution is that value that divides the data in half, with 50 percent of the cases above it and 50 percent below. For example, if there are 249 engineers with a given level of experience in a sector, the median salary for this level of experience is the value of the 125th data point. EMC's data are grouped into salary brackets, so calculation requires one to determine which group of salaries contains this median point. Interpolation then yields the final raw result; continuing the example, if the 125th point happens to be the 20th case in the $36,000-$37,999 bracket, and if there are 39 cases in this bracket, then the median value is $37,000. Calculation of the deciles and quartiles is similar, except that in those cases the statistics cut the data into quarters or tenths.

7. Statistics for deciles, quartiles, medians, and means were not computed if the number of data points for those with a given level of experience (years since obtaining the B.S. degree) was either ten or less, or less than one percent of all the cases in the data set; if the data were for supervisors with less than four years of experience; if the data were for engineers with master's degrees and less than two years' experience; or if the data were for engineers with doctoral degrees and less than five years' experience (tabulations by degree level will be found in the *Special Industry Report).*

CURVE SMOOTHING

As in the past, EMC's final salary statistics were generated from raw results using four-parameter smooth curves computed by the least squares method. Raw statistics were converted, using data across all levels of experience, into curves of the form

$$y = ax^z + bx + c$$

where y = the reciprocal of the salary and x = (43 minus the number of years since the first degree). The computational algorithm yields values for the parameters *a, b, c* and *z* which minimize the sum of the squares of the differences between the raw and smooth values of *y*. The squared differences are weighted by the number of cases associated with each set of data points. Transformed values are used to improve the precision of the computation.

This approach to curve smoothing was adapted by Richard C. Fremon (a former chairman of the Commission and presently an emeritus member) from similar routines he developed for salary curve smoothing at AT&T's Bell Laboratories in the 1960's, and has been used by EMC since 1967. In reprogramming the routines for use on EMC's new computing systems, some new wrinkles have been added. Improved handling of values arbitrarily used for beginning and ending salary brackets--in 1989, for salaries of more than $125,000 or less than $22,000 per annum--eliminated difficulties experienced in the past when top salaries for some of the most highly paid engineers, such as senior supervisors in the petroleum industry, tended to be artificially depressed. Also, graphing routines were adjusted so that plotted curves accurately reflect the actual value assumed for the top experience bracket (39 years).

A more fundamental adjustment has been EMC's increasing allowance for the fact that more than one "minimal" sum of squares can be computed for most of these salary data, depending on what values are assumed at the beginning of the process. EMC's traditional program iterated the computations until the sum of the squared differences began to rise; at that point the process would end and the previous results would be used as final values. In some distributions of the data (for example, when the statistics were dominated by a pair of companies with very dissimilar salary scales) this approach could yield unsatisfactory results. In the more common curve smoothing exercises employed by many corporations to examine compensation practices, such problems can be handled through trial-and-error tests until a satisfactory outcome is reached. That sort of solution is less feasible for EMC, both because of the volume of curves the project generates, and because highly consistent methods are needed to provide a degree of comparability among different results in any one year, as well as among results over time, from one year to the next.

To provide improved results while still adhering to predictable methods, the curve-smoothing program was adjusted in 1987 to test the value of the exponent z, which ordinarily begins at 1.0, incrementing in steps of 0.1 until the sums of squares no longer shrink. When this process was completed for any given set of data, z was inspected to determine if it had only reached a relatively small value (2.0 out of a possible top value, set arbitrarily, of 15.0). If not, the process was automatically restarted, running a second time after re-initializing z to the higher starting value of 2.0.

This change leads, in almost every case, to the generation of a *pair* of curves--which is to say that EMC's original approach almost always yielded a solution before z had reached a very large value. Restarting the procedure provides a second possible solution and a second set of smooth curves, which can then be compared with the original set to choose the one with the best fit to theory (e.g., that salaries should increase most rapidly in early years and flatten with greater experience), as well as a good fit to the original data (that is, the curves should not grossly distort the raw results). The final curves are selected by choosing the version that comes closest to the raw data for the starting (less than one year), ten, and 25-year experience brackets (in some cases, adjacent brackets are used to compare the pair of curves, because of obvious sampling problems in the raw statistics). In 1989, EMC also computed and used curves with still higher initialization values of z, for a few cases where continuation of this iterative process resulted in more satisfactory outcomes. Over 90 percent of the curves depicted in this report were derived by iterations that were initialized at $z = 2.0$. The aerospace sector and some supervisory curves respond best to initializations at $z = 1.0$ (the same is often true for the relatively flat maturity curves computed by EMC for such groups as engineers in education or government). In a few cases, initialization values as high as 5.0 were used. Within sets of matched curves (for example, supervisory data for all engineers, supervisors with bachelors' degrees, supervisors with M.S. degrees, etc.), initialization values were held constant to improve the comparability of the data.

Note that these procedures only limit the starting points for the curve-smoothing computations; the actual results are generated by whatever value z has reached before the sum of squares begins to increase, a value that varies from one curve to the next. In practice, the following outcomes have been observed. EMC's traditional (pre-1987) curves, which did not provide for the use of starting values of z that were greater than 1.0 and which usually resulted from iterations that ended before z had reached a value of 2.0, tended to be "peaky" (although the peaks could occur outside the visible portion of a graph, so that some curves appeared as virtually straight lines). Often these curves did not seem to move down enough at the early (beginning) salary levels. The alternative curves, which are computed using higher starting values for z, behave differently. Usually (not inevitably, however) they conform more closely to the raw statistics for salaries of new engineers, at least when data are not limited to those with advanced degrees or supervisory responsibilities. These curves flatten out when they reach the higher experience brackets; in most cases, this also improves the fit of the curves to the raw data.

Beginning in 1987, EMC began to present its raw salary results as well as the smooth-curve estimates, doubling the amount of information provided by these surveys and enabling more sophisticated interpretations of the statistics. This has allowed EMC to make distinctions between *factual outcomes for the companies participating in a survey,* which is what the raw statistics are, and *best estimates of the underlying general trends.*

The Commission is still not fully satisfied with its curve-smoothing methods; least-squares computations entail a number of logical and mathematical difficulties when applied to data on compensation. In particular, the computations are very sensitive to variations in the distribution of a set of engineers across experience brackets, and the curves for supervisors or engineers with M.S. or Ph.D degrees tend to overestimate rates of compensation for the more recent entrants to the profession. Other methods, including the use of banded splines and anchoring points, have been applied by organizations that do not have EMC's need for an approach that can be rapidly and consistently applied to a broad range of national data from many different sectors. The Commission is continuing its study of these alternatives, and further refinements of our methods are anticipated. The general method of maturity curves is widely used as a means to assess the compensation of engineers, and EMC expects to continue to contribute to the development of these tools, as it has in the past.

PRESENTATION OF RESULTS

Curves and tables in this report are arranged in a hierarchy, starting with the broadest grouping ("All Industries") and then working through specific sectors, to the extent permitted by the data and the rules and conventions discussed above.

The "All Industries" data are extensive, and include details for supervisors, nonsupervisors, and variations by size of employer and region of the nation. Next, data are presented for "All Manufacturing Industries," and for the industrial sectors that are included in that group; then the report concludes with a similar section for "All Non-Manufacturing Industries."

The table of contents for this report can assist users in locating comparative data of interest. The specific participating organizations in each sector are identified in the appendices, so that users can better judge the applicability of the information given for a particular sector to their own situations.

The tabulations accompanying the curves include mean salaries (not plotted) and the distribution of the cases among the various experience brackets. The tables also list the numbers of cases falling in the extreme salary brackets (for industry data in 1989, less than $22,000 or more than $125,000). The tabulations also provide summary data for salaries across all experience brackets. Such broad statistics are unlikely to be applicable to specific engineers, but they are useful in assessing differences among groups. Since these data are now routinely provided in the tables, the brief discussion of overall salary outcomes that was once included in these introductions has been dropped from the text. However, we will note that in most cases, the levels of engineering pay reported in these surveys did not rise very much between 1988 and 1989.

Data provided by participants in EMC salary surveys are confidential and only aggregates are presented. Only EMC staff have access to completed forms. Forms do not identify salaries of specific persons.

DEFINITIONS

1. Industrial Sectors and Combined Groupings:

All Industries includes all participating organizations in the 1989 EMC salary survey (other than government).

All Manufacturing includes the following industrial sectors: aerospace; automotive and related manufacturers; chemicals; electric, electronic, and computing equipment; fabricated metal products; machinery (other than electric); petroleum; precision instruments; other durable goods manufacturers; and other nondurable goods manufacturers.

Electric, Electronic and Computing Equipment is a summary grouping; in addition, separate reports are provided for manufacturers of electrical machinery, electronic equipment, and computing hardware or software.

Other Durable Goods Manufacturing and *Other Nondurable Goods Manufacturing* are residual sectors. They include organizations who judged that their businesses did not fit into any of the more traditional industrial sector categories; they also include additional organizations whose preferred sectors could not be formed due to a lack of a sufficient number of responding employers, data points, or both. "Durable Goods" are those with a normal usable life of at least three years, and include ships, ceramic products, basic metal refining, lumber, and other similar kinds of products. "Nondurable Goods" are those with a shorter usable life, and include paper, tires and other fabricated rubber products, and agricultural products.

Non-Manufacturing Industries is a summary group that includes communication services and utilities, construction, consulting and engineering services, electric and gas utilities, research organizations, and a miscellaneous residual group of "other" non-manufacturing organizations (see below).

Consulting and Engineering Services is a summary group; separate reports are also provided on both components.

Electric and Gas Utilities is a summary group; separate reports are also provided for electrical utilities (which include combined electric and gas utilities), and for gas utilities (principally pipeline companies).

Other Non-Manufacturing is a residual group for non-manufacturing participants whose preferred classifications could be not formed, due to lack of sufficient data. In 1989, the group includes companies or organizations in mining, business/trade/publishing, and professional societies. As noted above, the total number of engineers reported to EMC in 1989 by such organizations was small, less than 100 individuals, so these data are used only in summary presentations.

Large Industrial Employers have 5,000 or more employees; *Medium Industrial Employers* have between 500 and 4,999 employees; *Small Industrial Employers* have less than 500 employees.

A list of the regional classifications used in this report is included at the beginning of the tabulations by region.

2. Chart Data (a facsimile chart is provided in the appendices for readers wishing to plot their own data):

Median: the point in a ranked array that is the midpoint of the series; the 50th percentile.

Quartile: points in ranked arrays that divide the series into quarters. The lower quartile is the 25th percentile; the upper quartile is the 75th percentile.

Decile: points in ranked arrays that divide the series into tenths. The lower decile is the 10th percentile; the upper decile is the 90th percentile.

Mean: sum of the values of the data, divided by the number of cases (data points). Provided as a convenience, but rarely used in analyses of income data, because means are sensitive to extreme values, while medians are not.

Supervisors: those "whose duties are primarily managerial or supervisory," whether or not they currently work in engineering positions. Some participating organizations indicate that they do not report salaries of top managers. EMC acknowledges in the instructions that accompany its data collection instruments that the precise definition of this term will vary from one organization to the next.

Years Since Baccalaureate Degree: a measure of experience. In 1989, an engineer with zero years of experience received the bachelors' degree in 1988 or the first quarter of 1989. Engineers with more experience may have been working or may have been pursuing advanced degrees.

3. Data on Bonuses or Other Forms of Special Incentive Compensation: increasingly, one-time special payments form an important component of engineering pay. EMC has traditionally tracked base salaries only. In recognition of the trend toward more use of bonuses, however, the 1989 survey included a special question to estimate the percentage of supervisors and non-supervisors who received additional special compensation in 1988 (the item is necessarily retrospective, since 1989 bonuses would not have been paid at the time of the study). Results for this item are reported in the table on the following page. Note that a non-response to the item was treated as a zero (that is, as an indication that no such compensation was paid).

PERCENTAGES OF ENGINEERS WHO RECEIVED BONUSES OR OTHER FORMS OF SPECIAL INCENTIVE COMPENSATION IN 1988:

Industry Group:	Supervisors:	Non-Supervisors:	All Engineers:
All Industries	14.1%	14.0%	14.0%
All Manufacturing	13.5	10.1	10.8
Aerospace	0.8	1.1	1.1
Automotive & Related	1.4	0.0	0.3
Chemicals/Drugs/Plastics	38.2	26.0	29.0
Electric Machinery/Electronics/Computers	8.9	20.3	18.7
Electrical Machinery	27.5	26.1	26.5
Electronics	5.5	20.8	18.9
Computers	6.6	4.7	5.2
Fabricated Metal Products	11.4	2.6	4.5
Machinery (Other Than Electrical)	36.3	15.0	22.1
Petroleum	1.4	0.3	0.7
Precision Instruments	0.0	0.1	0.1
Other Durable Goods Manufacturing	5.6	0.0	1.2
Other Nondurable Goods Manufacturing	21.6	0.0	7.8
All Non-Manufacturing	15.5	20.3	19.0
Communication Services	0.0	0.0	0.0
Construction	1.6	0.7	0.9
Consulting/Engineering Services	12.5	5.9	7.6
Consulting	13.8	6.4	8.5
Engineering Services	9.9	5.2	6.2
Electric/Gas Utilities	8.2	4.7	5.8
Electric Utilities	7.2	4.9	5.6
Gas Utilities	21.2	0.7	9.5
Research & Other Non-Manufacturing*	30.0	42.7	39.9
Government:			
Federal	20.7	15.5	16.5
State	12.5	4.3	6.9
Local	4.5	0.0	2.1

NOTES: "Other Non-Manufacturing" not separately assessed (too few cases); instead, combined with R&D.

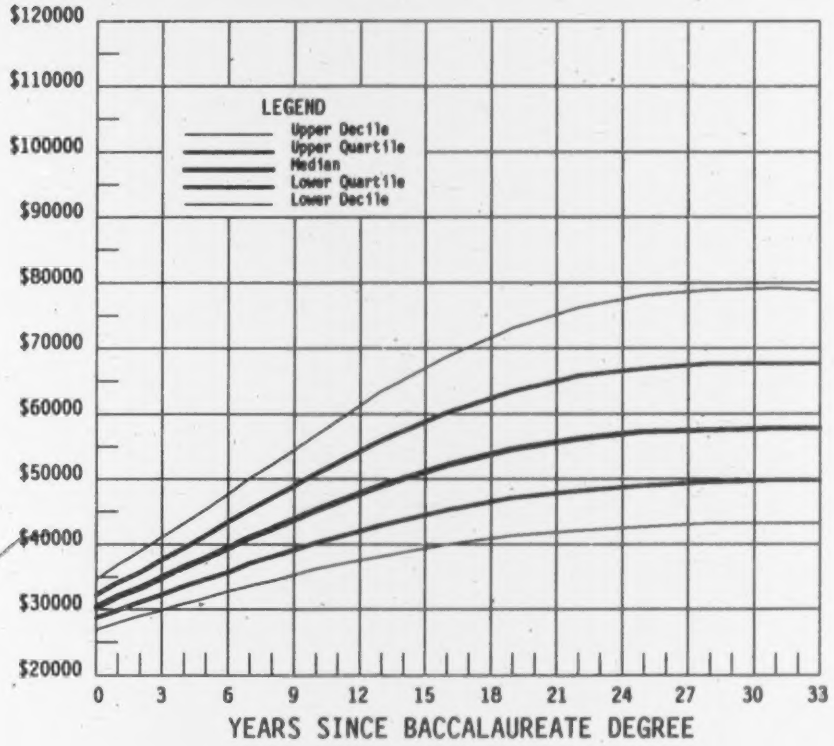
DISTRIBUTION OF RESPONSES, 1989

Industry Group:	Participating Organizations:	Engineers Represented:	All Employed Engineers (BLS Data for 1986):	Sector Weight:
All Industries	279	111,150	1,157,866	N/App
All Manufacturing	133	58,506	711,377	N/App
Aerospace	18	19,160	146,972	0.73636
Automotive & Related	5	312	39,876	12.26896
Chemicals/Drugs/Plastics	9	14,044	38,755	0.26490
Electric Machinery/Electronics/Computers	41	12,667	239,079	1.81183
Electrical Machinery	6	835	---	---
Electronics	26	11,164	---	---
Computers	9	668	---	---
Fabricated Metal Products	15	1,431	32,017	2.14779
Machinery (Other Than Electrical)	13	209	62,913	28.89648
Petroleum	9	5,119	32,136	0.60264
Precision Instruments	6	241	48,194	19.19671
Other Durable Goods Manufacturing	12	4,751	34,341	0.69387
Other Nondurable Goods Manufacturing	6	572	37,094	6.22527
All Non-Manufacturing	145	52,644	446,489	N/App
Communication Services	5	1,090	31,717	2.79329
Construction	3	1,173	39,741	3.25231
Consulting/Engineering Services	51	15,492	160,573	0.99498
Consulting	36	9,316	---	---
Engineering Services	15	6,176	---	---
Electric/Gas Utilities	50	11,661	39,175	0.32250
Electric Utilities	40	11,129	---	---
Gas Utilities	10	532	---	---
Research & Other Non-Manufacturing	36	23,228	175,283	0.72440
Research & Development Organizations	29	23,135	---	---
Other Non-Manufacturing	7	93	---	---

NOTES: Participating organizations counted in primary (first-named) sector only. Totals in specific tables may not exactly match these numbers, due to rounding in the weighting process. Additional weights, not depicted here, were used for the "All Manufacturing" and "All Non-Manufacturing" groups. Data for engineers in government are not used in this table; those figures add 173,881 engineers to the BLS work force estimates. In general, statistics from the 1986 BLS Industry-and-Occupation Matrix have been regrouped here, to accomodate EMC's broader sectoral definitions. The Bureau of Labor Statistics will issue an updated industry/occupation matrix with a 1988 baseline late this year, and that version will be used to weight EMC's 1990 salary survey.

CURVES AND TABLES FOR ALL INDUSTRIES—1989

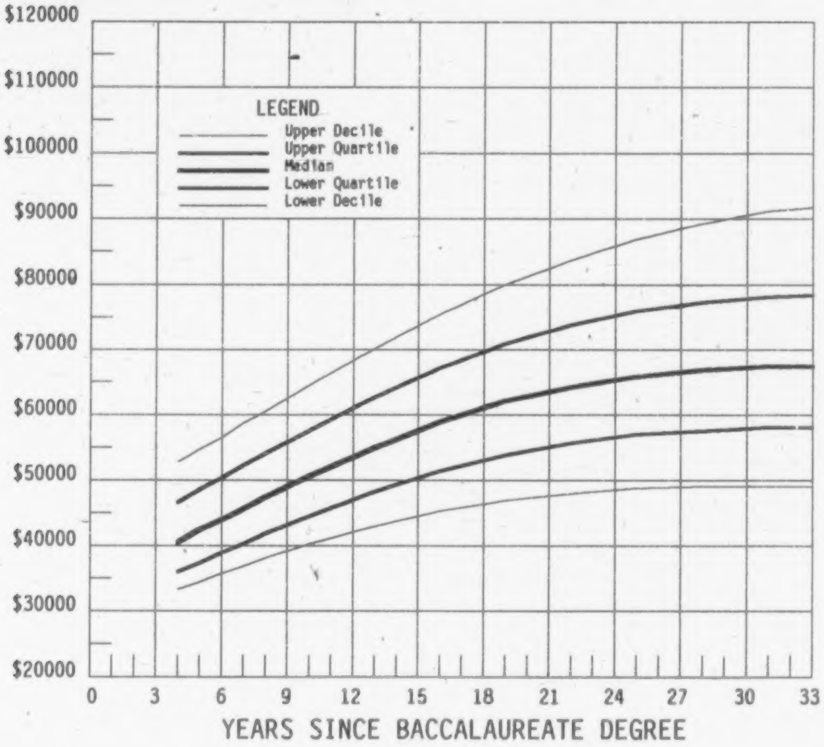
SALARY CURVES FOR ENGINEERS IN ALL INDUSTRIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL INDUSTRIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34750	36750	38850	41000	43200	45450	47750	50050	52350	56900	63350	68900	73200	76250	78050	78900	79100	78450	67500
Upper Quartile	32300	34050	35850	37700	39550	41450	43350	45300	47150	50850	55950	60250	63500	65750	67050	67650	67750	67250	56550
Median	30450	31950	33400	34900	36450	37950	39450	40950	42400	45250	49050	52200	54600	56250	57250	57700	57900	57650	46400
Lower Quartile	28750	29900	31100	32300	33500	34700	35850	37000	38100	40200	43000	45300	47100	48300	49100	49550	49750	49800	38100
Lower Decile	27050	28000	29000	29950	30900	31850	32750	33650	34500	36150	38250	39950	41250	42150	42750	43100	43250	43250	32450
Mean	30800	32250	33800	35300	36850	38400	39950	41500	43000	45950	50000	53450	56150	58050	59350	60050	60400	60450	48800
Raw (Unsmoothed) Statistics																			
Upper Decile	33350	35900	39650	41050	43500	46050	48850	51100	53500	57550	62850	66700	71150	75000	78100	79000	79150	80750	67500
Upper Quartile	31700	33500	35750	37650	39750	41850	44150	46100	48300	51650	55450	58800	61600	65100	67600	67300	67750	68800	56550
Median	30300	31350	33350	34950	36350	38400	39950	41300	43250	45450	48650	51700	53450	56300	57250	57750	58050	58200	46400
Lower Quartile	28550	29600	30950	32450	33400	35100	36050	37000	38900	40550	42700	44650	45700	49300	48850	50650	50000	49650	38100
Lower Decile	26800	28200	28700	30250	30800	32100	32550	33650	34550	36500	38050	39450	40800	43100	42250	44050	43050	43050	32450
Mean	30300	31900	33800	35350	36900	38700	40400	41850	43800	46450	49700	52450	54850	58200	59450	60200	60350	61200	48800
Supporting Data																			
Total Number	3076	3515	4006	4635	5017	4529	4747	4649	4922	11423	9690	8899	8522	7161	6218	5975	5390	8772	111149
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	4	8	21	23	34	116	206
Less Than $22000	65	38	45	17	3	22	4	3	4	4	1	1	0	2	0	2	3	2	216

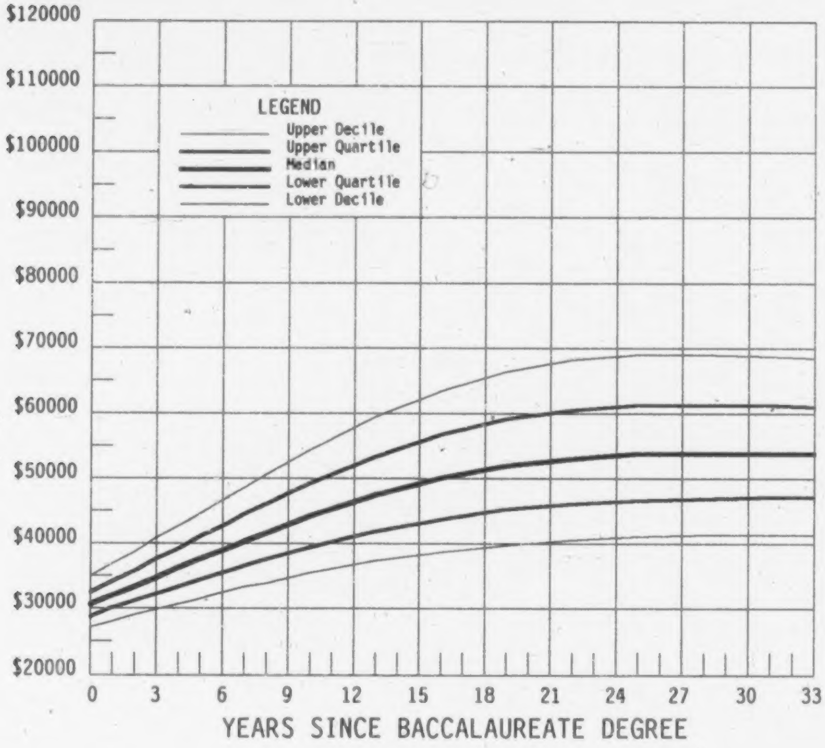
SALARY CURVES FOR ENGINEERS IN ALL INDUSTRIES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL INDUSTRIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	52700	54700	56650	58650	60650	64550	70200	75350	79950	83850	87000	89400	91250	93700	82000
Upper Quartile	0	0	0	0	46550	48450	50300	52200	54050	57700	62750	67200	70900	73800	75900	77300	78200	79050	70900
Median	0	0	0	0	40600	42300	44000	45650	47350	50550	55050	58900	62050	64350	65950	66950	67500	67850	60400
Lower Quartile	0	0	0	0	36000	37450	38900	40350	41750	44500	48250	51400	53900	55750	56950	57700	58050	58200	50450
Lower Decile	0	0	0	0	33250	34500	35700	36900	38050	40200	43050	45350	47000	48100	48700	49000	49000	48750	43500
Mean	0	0	0	0	42150	43750	45350	46950	48550	51650	56000	59900	63150	65800	67800	69250	70200	71350	62200
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	52800	51750	56100	56800	62950	66600	70800	73300	79250	83600	88750	90450	90450	94050	82000
Upper Quartile	0	0	0	0	46000	46250	49800	50750	56200	59400	63150	65700	70450	73150	76450	79000	78350	79050	70900
Median	0	0	0	0	38350	41700	43850	44200	49850	51950	55300	57950	61050	63350	67750	68250	67650	67700	60400
Lower Quartile	0	0	0	0	34300	37650	39200	37950	44250	45750	48200	50600	52800	55500	57900	59400	58900	57550	50450
Lower Decile	0	0	0	0	32300	34700	33400	36150	40450	41450	43300	44300	45200	49500	47700	51100	51450	47600	43500
Mean	0	0	0	0	40950	42650	44900	45400	50750	53050	56350	58800	62200	65550	68700	70350	70500	71250	62200
Supporting Data																			
Total Number	35	32	121	108	207	305	356	553	542	2124	2489	2982	2892	2798	2171	1991	1802	3081	24577
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	4	7	18	21	33	108	191
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	5

SALARY CURVES FOR ENGINEERS IN ALL INDUSTRIES
NON-SUPERVISORS, ALL DEGREE LEVELS

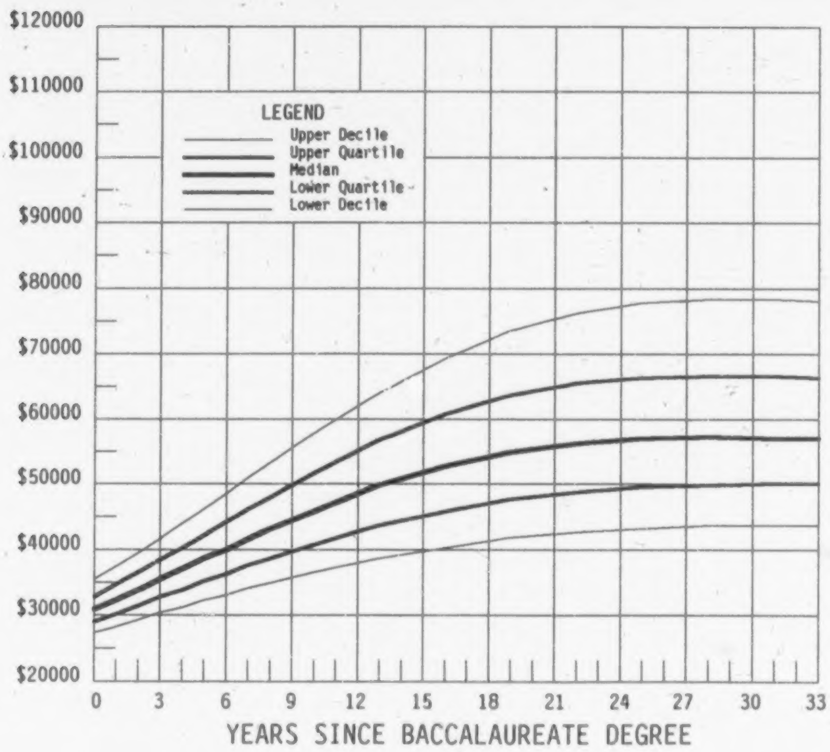


1989 ENGINEERING SALARY STATISTICS: ALL INDUSTRIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34900	36800	38700	40700	42650	44650	46650	48650	50600	54350	59400	63450	66350	68150	69000	69150	68900	67850	59850
Upper Quartile	32450	34100	35800	37550	39250	41000	42700	44400	46100	49250	53450	56800	59200	60600	61300	61400	61200	60350	52150
Median	30600	32000	33400	34800	36250	37650	39000	40350	41700	44150	47450	50050	51900	53100	53750	53950	53900	53450	43300
Lower Quartile	28900	30000	31150	32250	33350	34450	35500	36550	37550	39400	41850	43800	45250	46200	46800	47050	47150	47000	36250
Lower Decile	27150	28100	29000	29900	30750	31600	32450	33250	34000	35450	37300	38750	39850	40600	41050	41300	41400	41350	31550
Mean	30850	32250	33700	35100	36500	37950	39350	40700	42050	44600	47950	50600	52600	53900	54600	54900	54950	54550	44950
Raw (Unsmoothed) Statistics																			
Upper Decile	33300	35850	39300	40750	43150	45600	48300	50200	52100	54850	58500	60750	63350	66400	68750	67950	70000	71350	59850
Upper Quartile	31700	33500	35650	37550	39600	41450	43750	45550	47150	49900	53000	55100	56750	59550	60700	61150	61650	62700	52150
Median	30300	31350	33300	34850	36300	38250	39750	41000	42700	44250	46850	48800	50850	52900	53750	54150	54350	54250	43300
Lower Quartile	28500	29600	30900	32400	33400	34950	35900	36800	38500	39750	41500	42850	43700	46550	46050	48400	47200	47600	36250
Lower Decile	26750	28200	28700	30200	30750	31900	32450	33400	34250	36050	36550	38000	39150	41250	41250	42600	41200	41150	31550
Mean	30200	31800	33600	35200	36700	38400	40050	41400	42950	44950	47400	49300	51050	53500	54450	55150	55250	55800	44950
Supporting Data																			
Total Number	3041	3483	3886	4527	4807	4227	4394	4098	4382	9298	7201	5917	5632	4364	4049	3986	3593	5694	86573
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	1	8	15
Less Than $22000	65	38	43	17	3	22	4	3	4	4	1	1	0	1	0	2	2	2	211

ALL INDUSTRY CURVES AND TABLES, BY SIZE OF EMPLOYERS

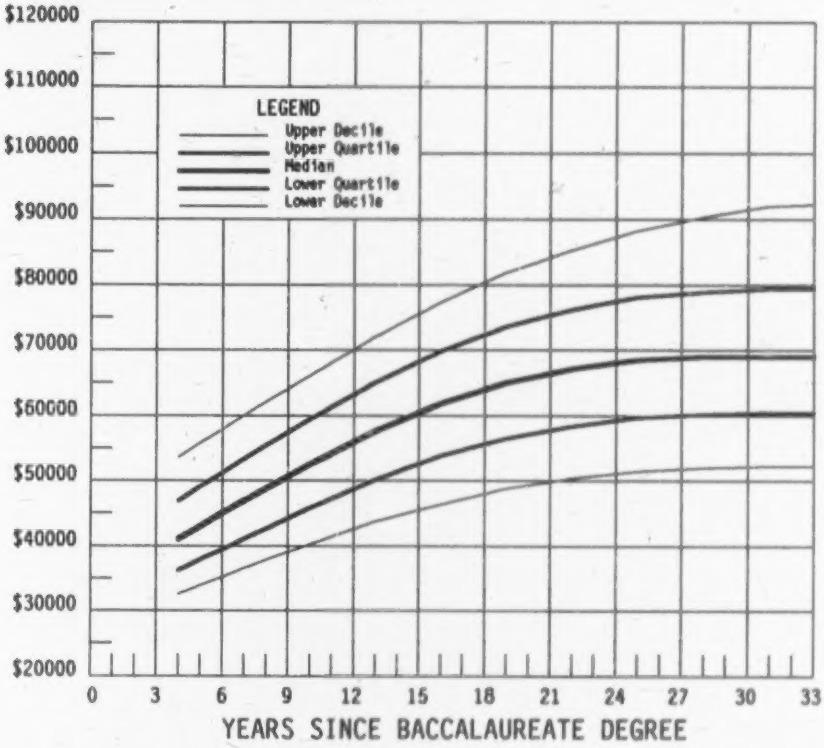
SALARY CURVES FOR ENGINEERS IN LARGE COMPANIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: LARGE COMPANIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35350	37400	39500	41700	43950	46200	48550	50850	53200	57750	64100	69450	73550	76300	77800	78400	78350	77400	67150
Upper Quartile	32850	34650	36500	38350	40300	42200	44150	46100	48000	51700	56700	60750	63700	65600	66500	66750	66600	65600	56650
Median	30850	32350	33900	35450	37000	38550	40100	41650	43150	46000	49750	52750	54950	56300	57000	57200	57100	56500	47150
Lower Quartile	29000	30250	31450	32700	33950	35150	36350	37500	38650	40800	43650	45950	47700	48900	49600	49950	50100	49950	38900
Lower Decile	27400	28350	29350	30300	31300	32200	33150	34050	34900	36550	38700	40400	41750	42700	43300	43650	43850	43900	32900
Mean	31250	32800	34300	35900	37450	39050	40600	42200	43700	46650	50650	53950	56500	58200	59250	59800	59950	59700	49200
Raw (Unsmoothed) Statistics																			
Upper Decile	33650	37300	39950	41900	44050	46450	49650	51850	54400	58450	63150	67450	71450	75350	78450	78450	78950	79050	67150
Upper Quartile	32150	34050	36350	38250	40400	42650	45100	46800	49300	52400	56150	59350	61550	65200	66850	66150	67250	67100	56650
Median	30700	31800	33550	35350	37050	38850	40650	42200	43950	46300	49400	52300	53700	56150	57050	56750	57500	57350	47150
Lower Quartile	29100	30150	31100	32550	33650	35150	36800	37800	39550	41150	43350	45250	46750	49400	49750	50350	50200	50050	38900
Lower Decile	28000	28500	28800	30350	30950	32000	33150	34200	35200	36750	38250	40400	41850	43200	43100	43850	43750	43750	32900
Mean	31000	32600	34100	35800	37350	39100	41150	42600	44600	47100	50250	53150	55300	58250	59750	59700	60100	60250	49200
Supporting Data																			
Total Number	1734	1750	2299	2795	3047	2677	2888	2937	3052	7006	5573	4921	5104	4147	3750	3823	3393	5007	65899
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	3	5	16	17	16	46	103
Less Than $22000	3	5	11	3	1	9	2	2	4	2	1	1	0	1	0	2	3	2	50

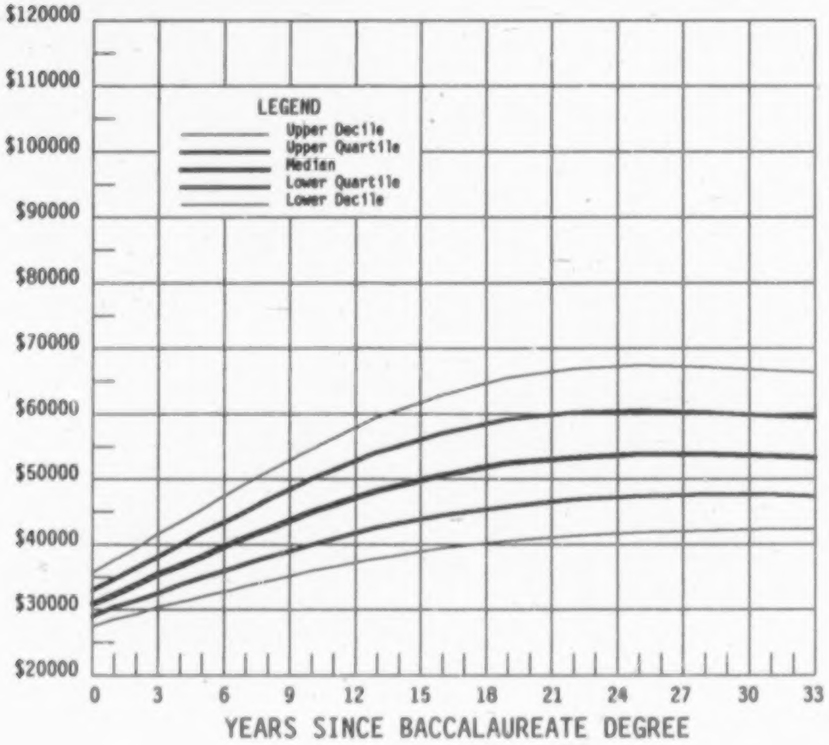
SALARY CURVES FOR ENGINEERS IN LARGE COMPANIES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: LARGE COMPANIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	53650	55750	57850	59950	62050	66150	72000	77250	81750	85450	88300	90400	91900	93700	83200
Upper Quartile	0	0	0	0	47000	49100	51250	53350	55450	59500	65150	69950	73700	76350	78100	79000	79400	79300	72550
Median	0	0	0	0	41150	43050	45000	46900	48800	52450	57500	61750	64950	67150	68450	69050	69150	68650	62450
Lower Quartile	0	0	0	0	36200	37800	39450	41100	42700	45800	50100	53750	56500	58500	59700	60300	60500	60250	52500
Lower Decile	0	0	0	0	32550	33900	35200	36500	37800	40300	43650	46500	48700	50300	51350	51900	52200	52200	44250
Mean	0	0	0	0	42250	44050	45850	47650	49450	52950	57850	62150	65600	68200	70000	71150	71800	72250	63800
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	54800	54900	56700	58400	62800	67650	71900	75750	80450	85600	91050	92350	90550	93200	83200
Upper Quartile	0	0	0	0	45850	46800	51050	51900	56450	61400	65400	68850	72900	75350	78900	79600	79250	79950	72550
Median	0	0	0	0	40000	43000	43950	45750	49900	53400	58100	60900	64200	66750	69150	69000	69200	69150	62450
Lower Quartile	0	0	0	0	34300	38350	40350	39350	43850	46300	50400	53250	55800	58200	60650	60500	60300	60500	52500
Lower Decile	0	0	0	0	29150	34650	35650	34400	40200	41350	44150	45000	47400	50600	52000	52850	53150	51650	44250
Mean	0	0	0	0	41000	43750	45750	46050	50600	54050	58150	61100	64900	67800	71200	71700	71400	72550	63800
Supporting Data																			
Total Number	16	15	30	56	104	149	218	323	387	1265	1327	1402	1479	1398	1208	1173	1068	1459	13071
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	4	15	17	15	43	97
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1

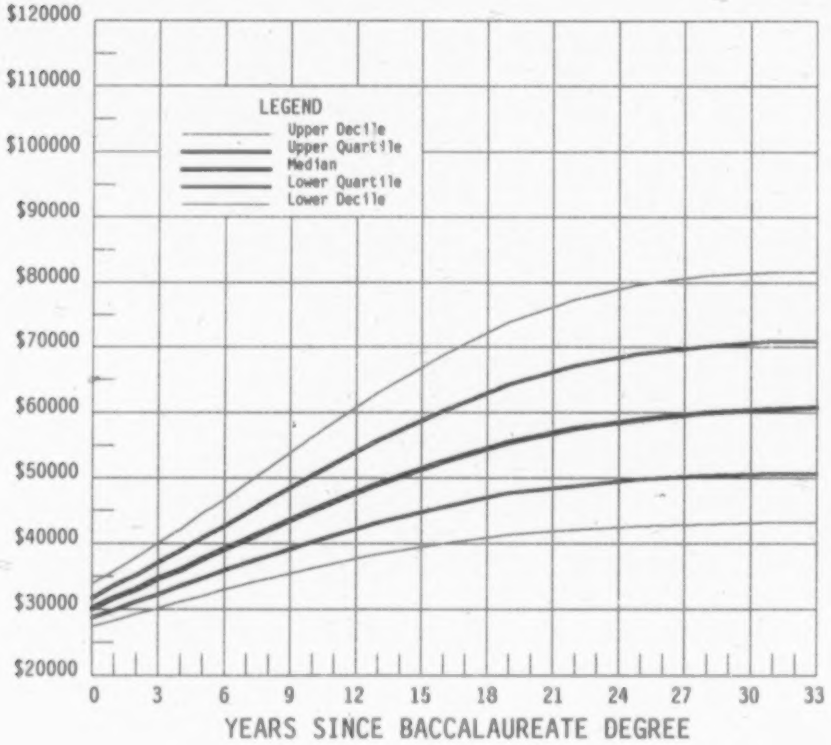
SALARY CURVES FOR ENGINEERS IN LARGE COMPANIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: LARGE COMPANIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35750	37600	39550	41500	43450	45400	47350	49300	51150	54750	59400	63050	65500	66850	67350	67250	66800	65450	59450
Upper Quartile	33000	34700	36450	38200	39950	41750	43500	45200	46850	50000	54050	57100	59100	60150	60450	60250	59800	58500	52700
Median	30950	32400	33900	35350	36800	38250	39700	41100	42450	45000	48250	50750	52450	53450	53850	53850	53600	52850	44400
Lower Quartile	29150	30350	31500	32650	33800	34950	36050	37100	38150	40100	42600	44550	46000	46900	47400	47650	47650	47400	37250
Lower Decile	27550	28450	29400	30300	31200	32050	32900	33700	34500	36000	37900	39450	40600	41400	41950	42200	42350	42400	32100
Mean	31450	32850	34300	35750	37150	38600	40000	41350	42700	45200	48450	51000	52750	53900	54400	54550	54450	53900	45550
Raw (Unsmoothed) Statistics																			
Upper Decile	33600	37100	39850	41650	43800	46150	49150	51100	52850	55350	58350	60550	62350	65050	66900	66350	68000	68950	59450
Upper Quartile	32100	34000	36250	38100	40250	42350	44650	46200	48200	50800	53400	55500	56450	58950	59800	59800	60500	61050	52700
Median	30700	31800	33500	35300	37000	38700	40400	41950	43400	45200	47500	49950	51350	52950	53850	53700	53900	54050	44400
Lower Quartile	29100	30150	31050	32550	33650	35000	36600	37700	39050	40400	42150	43850	44950	46900	47150	48100	47850	48050	37250
Lower Decile	28000	28500	28750	30350	31000	31850	33000	34200	34800	36200	37150	39250	41000	41700	41950	42450	42300	42350	32100
Mean	30900	32500	34000	35700	37250	38850	40750	42150	43750	45550	47800	50000	51350	53350	54300	54400	54900	55250	45550
Supporting Data																			
Total Number	1720	1738	2270	2739	2943	2528	2673	2616	2670	5740	4243	3519	3623	2747	2544	2650	2327	3548	52824
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4	6
Less Than $22000	3	5	11	3	1	9	2	2	4	2	1	1	0	1	0	2	2	2	49

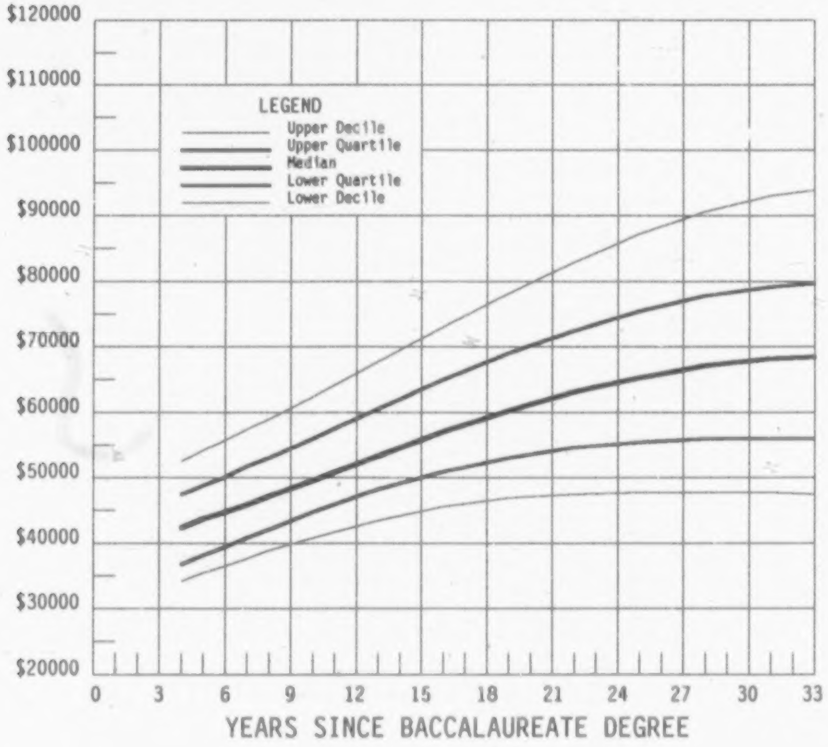
SALARY CURVES FOR ENGINEERS IN MEDIUM-SIZED COMPANIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS; MEDIUM-SIZED COMPANIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33850	35850	37900	40050	42250	44500	46800	49100	51450	56150	62900	68900	73800	77350	79700	81000	81550	81400	69400
Upper Quartile	31800	33500	35250	37100	38950	40800	42700	44600	46550	50300	55700	60400	64250	67150	69100	70250	70850	71100	57700
Median	30250	31650	33100	34600	36100	37600	39100	40600	42100	44950	49000	52500	55400	57550	59050	60050	60650	61100	46150
Lower Quartile	28700	29900	31100	32300	33550	34750	35900	37100	38200	40400	43300	45700	47600	48900	49800	50300	50550	50650	37400
Lower Decile	27400	28350	29300	30250	31200	32100	33000	33900	34700	36300	38350	40000	41250	42100	42700	43000	43200	43200	32250
Mean	30400	31900	33400	34900	36450	38050	39600	41200	42750	45800	50100	53800	56850	59150	60750	61800	62350	62800	49050
Raw (Unsmoothed) Statistics																			
Upper Decile	32750	35050	38250	40450	42750	45450	47400	49950	52800	56550	63050	67150	71550	75000	79700	81600	81150	84850	69400
Upper Quartile	31350	32900	35350	37200	38850	41150	43600	45750	47550	50750	55550	59100	62600	66000	70050	70250	70100	73350	57700
Median	30000	31100	33350	34850	35900	37900	39750	40750	42600	45250	49100	52100	53200	57900	59300	60900	60900	61750	46150
Lower Quartile	27800	29550	31200	32900	33600	35350	36500	37150	38900	40850	43100	44750	44950	50550	49400	52100	51650	50600	37400
Lower Decile	26000	28350	29200	31250	31050	33200	32500	34750	35400	36900	38450	38900	38400	43800	41850	45000	44000	43400	32250
Mean	29400	31550	33450	35450	36650	38650	40000	41700	43500	46200	50200	52650	54750	59150	60600	62150	62600	64400	49050
Supporting Data																			
Total Number	1057	1383	1335	1535	1570	1398	1473	1350	1420	3380	3087	3020	2738	2339	1875	1751	1637	2716	35051
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	5	18	64	94
Less Than $22000	62	4	35	2	2	1	2	2	0	2	0	0	0	0	0	1	0	0	112

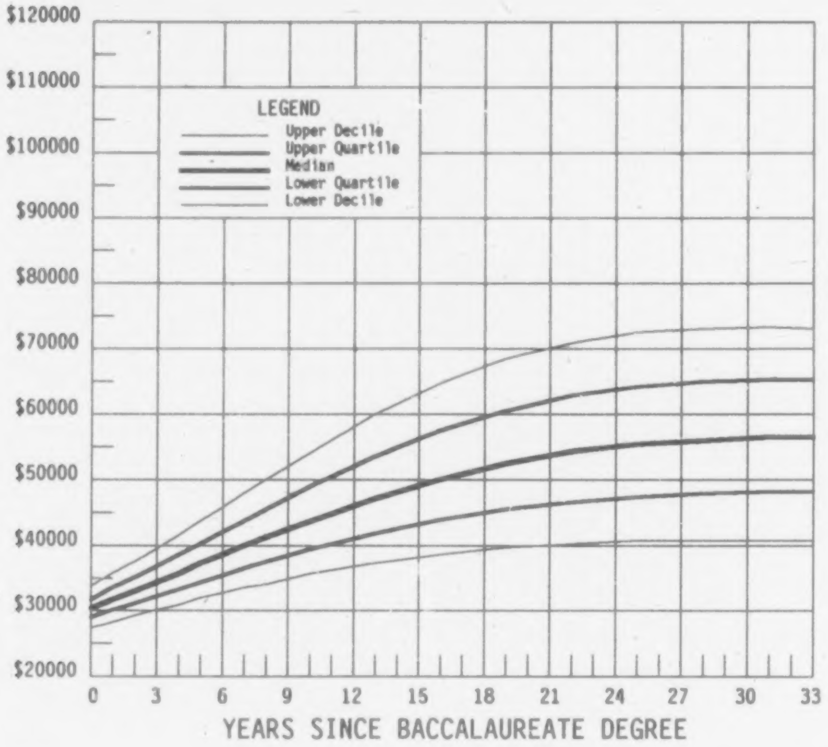
SALARY CURVES FOR ENGINEERS IN MEDIUM-SIZED COMPANIES SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MEDIUM-SIZED COMPANIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	52550	54100	55700	57350	59000	62400	67700	73050	78200	83000	87150	90550	93150	96150	82450
Upper Quartile	0	0	0	0	47500	48850	50200	51650	53100	56050	60550	64950	69050	72600	75550	77750	79250	80700	70350
Median	0	0	0	0	42500	43650	44800	46000	47200	49700	53400	57000	60250	63100	65400	67100	68250	69350	59250
Lower Quartile	0	0	0	0	36700	38100	39500	40850	42200	44750	48150	50950	53050	54550	55450	55900	56100	55950	49700
Lower Decile	0	0	0	0	34150	35350	36550	37700	38850	40900	43550	45500	46850	47550	47850	47800	47600	46950	43300
Mean	0	0	0	0	43700	44850	46050	47250	48500	51000	54750	58400	61800	64800	67250	69150	70550	71950	61750
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	55900	51500	56900	52550	65200	63200	69750	71150	78100	83050	87300	88950	91600	98850	82450
Upper Quartile	0	0	0	0	50300	48300	49350	48650	56200	56450	61750	64250	68800	71800	75400	79300	77550	82050	70350
Median	0	0	0	0	44600	43000	45700	43150	50050	49700	54250	57100	59150	62600	66300	68250	67000	70000	59250
Lower Quartile	0	0	0	0	37400	41150	41900	37500	45250	44100	48250	51750	50750	55650	54850	59150	59150	54150	49700
Lower Decile	0	0	0	0	35100	36450	37150	36550	41600	41250	42000	46050	44550	50800	45450	51450	51450	44900	43300
Mean	0	0	0	0	45100	44300	46550	44450	51450	51300	55700	58400	60400	65150	66450	69800	71000	72600	61750
Supporting Data																			
Total Number	19	16	39	49	61	95	101	223	141	661	844	1123	1067	978	733	653	609	1104	8511
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	18	63	89
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3

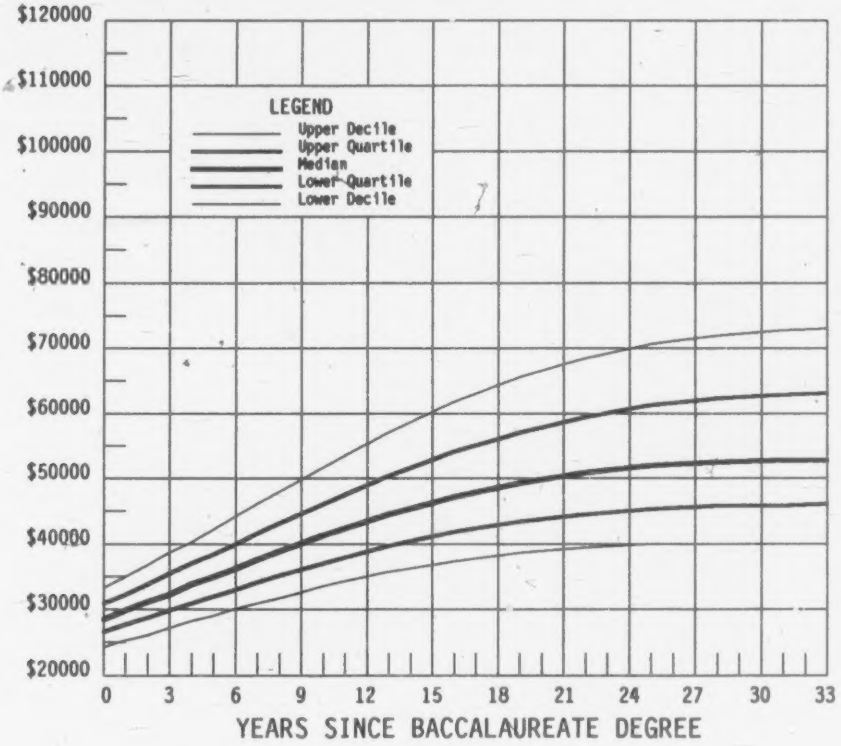
SALARY CURVES FOR ENGINEERS IN MEDIUM-SIZED COMPANIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MEDIUM-SIZED COMPANIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33750	35650	37600	39600	41650	43750	45850	47950	50050	54200	59950	64800	68500	71050	72500	73150	73250	72550	62450
Upper Quartile	31850	33500	35150	36850	38600	40350	42100	43850	45550	48950	53600	57550	60650	62850	64200	64950	65250	65100	52250
Median	30400	31750	33100	34500	35850	37250	38600	39950	41250	43800	47300	50250	52550	54300	55400	56100	56500	56700	42500
Lower Quartile	28950	30050	31150	32250	33350	34400	35450	36500	37500	39400	41950	44000	45600	46750	47500	47950	48150	48300	35600
Lower Decile	27450	28350	29250	30150	31050	31900	32700	33500	34250	35650	37400	38750	39750	40350	40750	40900	40900	40750	31350
Mean	30400	31800	33250	34700	36150	37550	39000	40450	41850	44500	48150	51200	53600	55250	56350	56950	57200	57200	45000
Raw (Unsmoothed) Statistics																			
Upper Decile	32750	35050	37800	39900	41950	44600	46650	49300	51100	54450	59850	62150	66350	68550	74250	71700	73650	76000	62450
Upper Quartile	31350	32900	35250	36950	38550	40650	43050	45250	46550	49350	53400	55400	58600	62050	64950	64150	65600	67500	52250
Median	29950	31100	33300	34700	35750	37650	39500	40450	41950	44400	47550	47850	50500	54300	55850	57000	56900	57850	42500
Lower Quartile	27700	29550	31200	32850	33500	35200	36250	37000	38600	40000	42000	41950	42450	47150	46450	50050	48550	49800	35600
Lower Decile	25850	28350	29250	31150	31000	33050	32300	34350	35050	36550	36800	37350	37050	41050	40550	42550	40900	41700	31350
Mean	29400	31550	33300	35100	36300	38250	39500	41200	42600	45000	48100	49250	51150	54900	56850	57550	57650	58750	45000
Supporting Data																			
Total Number	1037	1368	1295	1486	1508	1305	1373	1128	1278	2719	2245	1892	1674	1359	1141	1099	1027	1610	26540
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	5
Less Than $22000	62	4	33	2	2	1	2	2	0	2	0	0	0	0	0	0	0	0	109

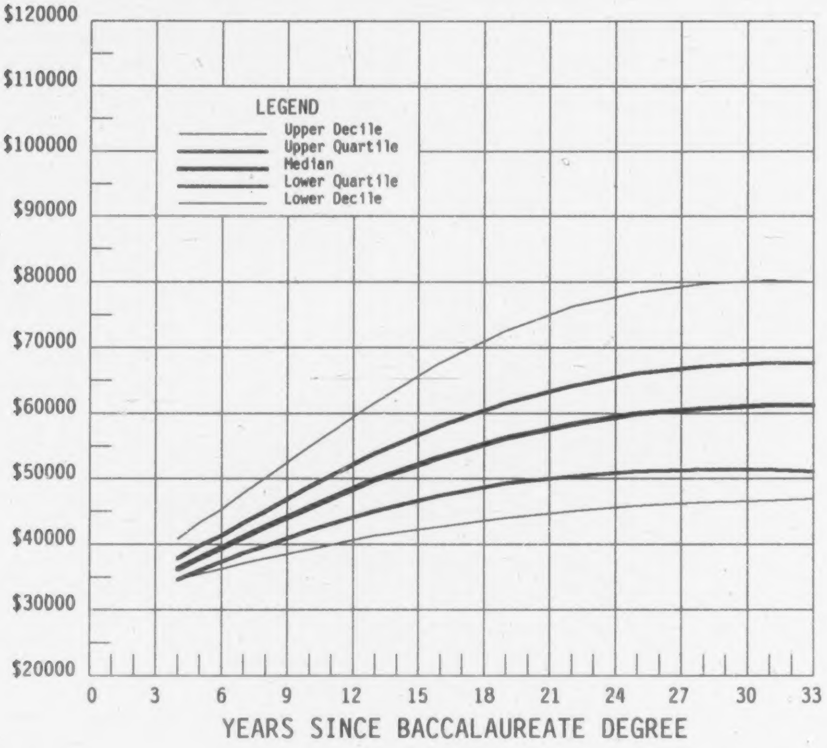
SALARY CURVES FOR ENGINEERS IN SMALL COMPANIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: SMALL COMPANIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33250	34950	36750	38550	40400	42250	44150	46050	47950	51750	57050	61800	65700	68650	70750	72050	72800	73350	62450
Upper Quartile	30950	32400	33900	35400	36950	38500	40050	41600	43150	46150	50400	54100	57150	59500	61200	62350	63000	63600	52450
Median	28550	29800	31100	32400	33750	35050	36350	37650	38900	41300	44600	47300	49450	51000	52000	52550	52800	52850	42650
Lower Quartile	26750	27800	28900	29950	31050	32100	33150	34200	35200	37100	39650	41750	43400	44550	45350	45800	46000	46100	35350
Lower Decile	24200	25200	26200	27200	28150	29100	30050	30950	31850	33500	35700	37400	38600	39450	39900	40050	40100	39850	30050
Mean	28850	30150	31450	32800	34100	35450	36800	38100	39450	42000	45550	48650	51200	53200	54600	55550	56150	56750	45150
Raw (Unsmoothed) Statistics																			
Upper Decile	31550	35000	43300	36000	39100	41250	44350	43900	46900	54200	56800	60650	65350	70550	71600	71350	68750	74050	62450
Upper Quartile	30350	32800	35200	34400	36650	39850	39300	39700	44850	46400	49150	54600	58600	58750	62550	62500	58650	64350	52450
Median	28900	29650	31800	31100	34450	37850	33950	35000	39650	40900	43950	47800	51350	53150	52100	52650	48500	52900	42650
Lower Quartile	27250	27700	29600	27500	31300	33750	32650	33000	34400	37800	39600	42300	42200	47700	43200	46550	41550	47250	35350
Lower Decile	26000	24300	26900	26100	29200	26600	31700	32050	28800	34750	35450	37400	38900	41550	38200	43050	38100	39450	30050
Mean	28900	29600	33150	31050	34350	36350	36350	36700	39250	42750	45200	48350	51600	54650	53850	56450	52200	57450	45150
Supporting Data																			
Total Number	288	380	373	304	403	460	387	366	450	1037	1029	964	680	675	591	403	361	1047	10199
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	6	9
Less Than $22000	0	29	0	12	0	12	0	0	0	0	0	0	0	1	0	0	0	0	54

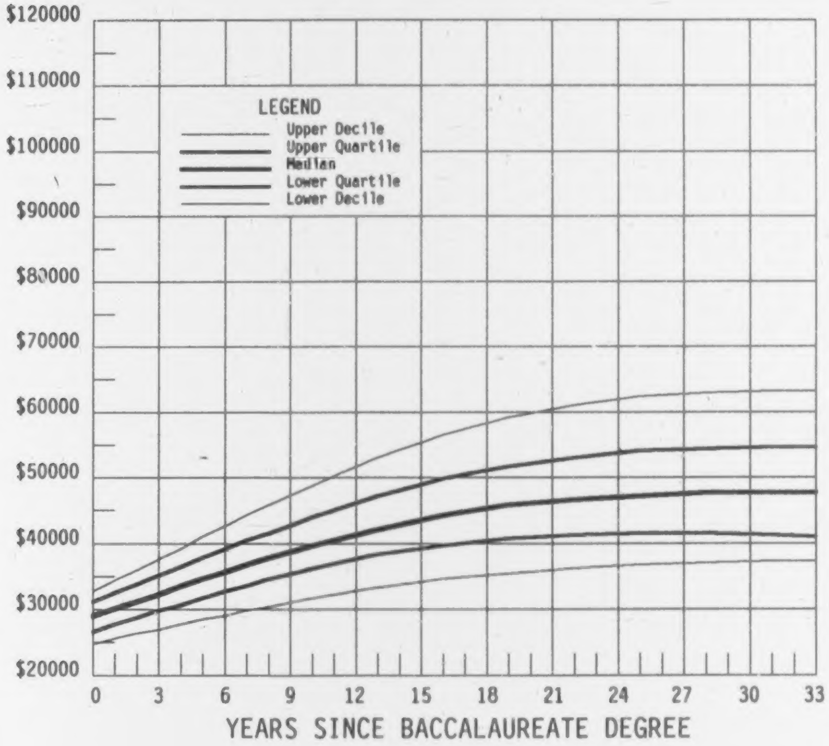
SALARY CURVES FOR ENGINEERS IN SMALL COMPANIES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: SMALL COMPANIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	40900	43150	45450	47800	50150	54850	61650	67700	72600	76200	78450	79700	80150	79800	73000
Upper Quartile	0	0	0	0	37850	39650	41450	43300	45100	48700	53750	58150	61700	64350	66150	67200	67700	67850	62700
Median	0	0	0	0	36350	37900	39500	41050	42600	45650	49850	53450	56350	58500	59900	60800	61250	61450	54700
Lower Quartile	0	0	0	0	34750	36050	37350	38600	39800	42100	45100	47500	49300	50450	51100	51350	51400	51050	47300
Lower Decile	0	0	0	0	34650	35450	36300	37050	37850	39250	41200	42800	44100	45100	45850	46400	46750	47200	41700
Mean	0	0	0	0	37350	38900	40400	41950	43450	46400	50550	54200	57200	59550	61250	62400	63100	63800	56400
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	36450	40650	43100	56000	65600	64050	62900	62950	70950	78400	75300	80550	80600	81000	73000
Upper Quartile	0	0	0	0	35400	39700	34500	51500	53000	55350	52850	57750	61000	59950	71600	70400	66700	68200	62700
Median	0	0	0	0	34250	38100	33350	47000	47000	52750	48050	52050	57100	56200	64700	61500	57950	61950	54700
Lower Quartile	0	0	0	0	33150	34950	32650	41500	41000	47550	45200	47150	46450	50400	53950	51050	46750	52150	47300
Lower Decile	0	0	0	0	32450	34300	32250	39500	38600	44600	40950	42350	41450	47950	44450	42700	45100	48550	41700
Mean	0	0	0	0	34900	37800	35550	46750	49800	52850	50350	52600	56200	58700	62850	62500	60850	64750	56400
Supporting Data																			
Total Number	0	1	51	5	43	64	39	10	16	199	317	454	346	418	227	162	125	518	2995
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	6
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1

SALARY CURVES FOR ENGINEERS IN SMALL COMPANIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: SMALL COMPANIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32850	34400	36000	37650	39300	40950	42550	44200	45800	48850	53050	56550	59250	61150	62300	62950	63200	63050	53400
Upper Quartile	31250	32550	33900	35200	36550	37850	39150	40450	41700	44050	47200	49800	51750	53150	54000	54450	54650	54600	45500
Median	28950	30100	31200	32350	33500	34600	35700	36750	37800	39700	42250	44250	45750	46700	47300	47600	47700	47550	39300
Lower Quartile	26550	27650	28700	29750	30800	31800	32750	33700	34600	36250	38350	39850	40850	41350	41550	41500	41300	40750	33300
Lower Decile	24850	25600	26350	27050	27800	28500	29200	29850	30500	31650	33250	34550	35550	36300	36800	37150	37400	37600	28650
Mean	28900	30100	31300	32500	33650	34850	36000	37150	38250	40350	43100	45400	47100	48300	49050	49450	49600	49550	40450
Raw (Unsmoothed) Statistics																			
Upper Decile	31550	34950	37250	35900	39300	42200	44550	43150	46700	47800	53850	55300	59800	63450	59550	63100	59400	65950	53400
Upper Quartile	30350	32450	34500	34350	36850	39900	39450	39450	44650	42750	46100	50450	52050	49950	54700	56700	57000	54250	45500
Median	28900	29650	31250	31050	34500	37800	34150	34850	39450	39800	41800	44350	43700	47550	47000	51500	44900	48300	39300
Lower Quartile	27250	27700	29100	27450	31000	32700	32650	32950	34300	36900	38500	39150	40450	41600	41800	45900	39450	40400	33300
Lower Decile	26000	24300	26400	26050	28950	26150	31500	32050	28750	34300	34300	27700	38700	38450	35950	43650	35400	37700	28650
Mean	28900	29600	31900	30900	34300	36100	36450	36400	38900	40350	42950	44500	46850	48350	48200	52300	47900	50350	40450
Supporting Data																			
Total Number	288	379	322	299	359	396	348	356	433	839	712	508	335	260	364	239	238	532	7204
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	4
Less Than $22000	0	29	0	12	0	12	0	0	0	0	0	0	0	0	0	0	0	0	53

ALL INDUSTRY CURVES AND TABLES, BY GEOGRAPHIC REGION

REGIONAL CLASSIFICATION:

New England:
- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

Middle Atlantic:
- New Jersey
- New York
- Pennsylvania

East North Central:
- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

West North Central:
- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

South Atlantic:
- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

East South Central:
- Alabama
- Kentucky
- Mississippi
- Tennessee

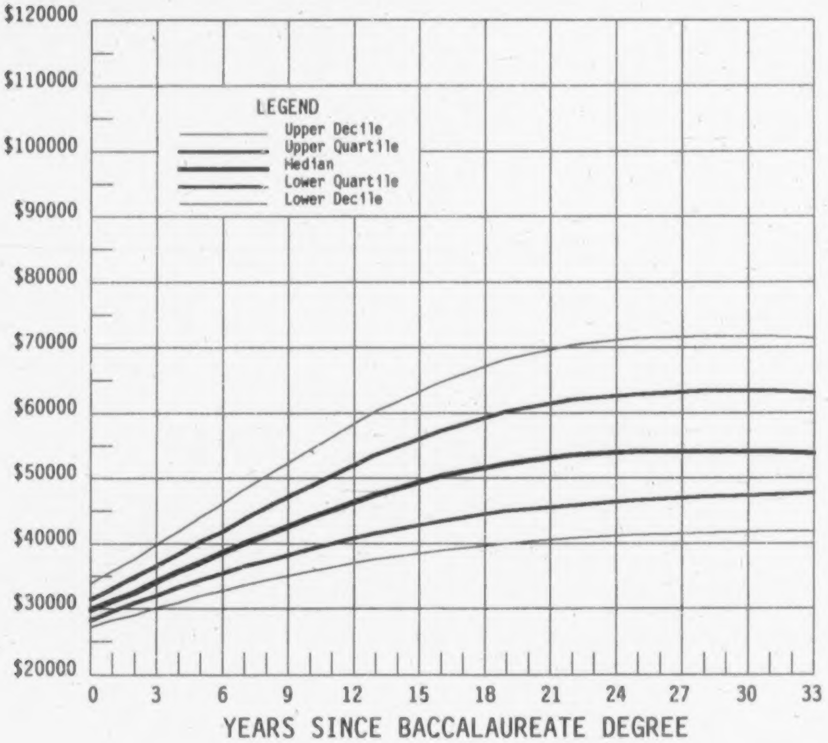
West South Central:
- Arkansas
- Louisiana
- Oklahoma
- Texas

Mountain:
- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

Pacific:
- Alaska
- California
- Hawaii
- Oregon
- Washington

Note: Some participating employers are multi-regional, i.e., classed in none of the above categories.

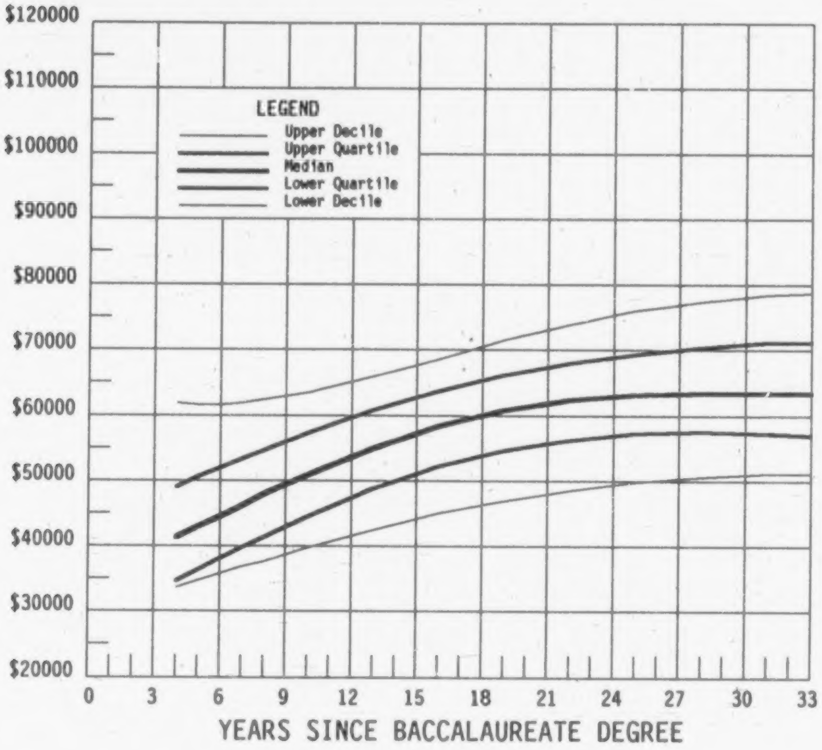
SALARY CURVES FOR ENGINEERS IN NEW ENGLAND
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: NEW ENGLAND

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33800	35750	37700	39750	41850	43950	46100	48200	50350	54450	60150	64800	68250	70400	71500	71850	71650	70500	62950
Upper Quartile	31500	33150	34850	36600	38400	40150	41950	43750	45500	48900	53550	57350	60200	62050	63050	63400	63400	62700	54100
Median	29750	31200	32650	34150	35600	37100	38550	40000	41400	44050	47550	50350	52300	53500	54050	54200	54050	53350	44850
Lower Quartile	28400	29650	30850	32050	33200	34300	35400	36450	37450	39250	41600	43500	44950	46000	46750	47250	47550	47750	36950
Lower Decile	27300	28300	29200	30150	31050	31900	32750	33550	34300	35700	37500	38900	40000	40750	41250	41600	41750	41900	31800
Mean	30450	31900	33350	34800	36250	37700	39200	40600	42000	44700	48250	51200	53350	54800	55600	56000	56050	55750	46550
Raw (Unsmoothed) Statistics																			
Upper Decile	33000	35100	37450	38250	42650	47750	48100	48700	49750	55750	60050	63400	65950	69750	67350	71600	72850	74200	62950
Upper Quartile	31350	33000	34550	36050	38350	40850	43000	43800	45100	49850	53900	57700	58850	61150	59600	62650	64150	65200	54100
Median	29650	31350	32600	33750	35550	37500	39200	39700	40800	44100	47600	51650	52100	52700	51350	54750	55350	53750	44850
Lower Quartile	28750	30100	30750	30950	32900	34550	35700	36200	37300	39250	41350	44700	45900	45650	45900	47350	48000	46700	36950
Lower Decile	28200	28800	29150	28200	30900	31700	32700	33500	34650	35650	37600	40300	41000	40450	42200	40800	41650	39800	31800
Mean	30350	32050	33150	33800	36400	38600	39950	40500	41750	45000	48200	51800	53000	54050	53450	55850	57000	56700	46550
Supporting Data																			
Total Number	261	350	354	363	343	350	328	360	459	917	782	849	699	679	476	395	396	637	8998
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	4
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1

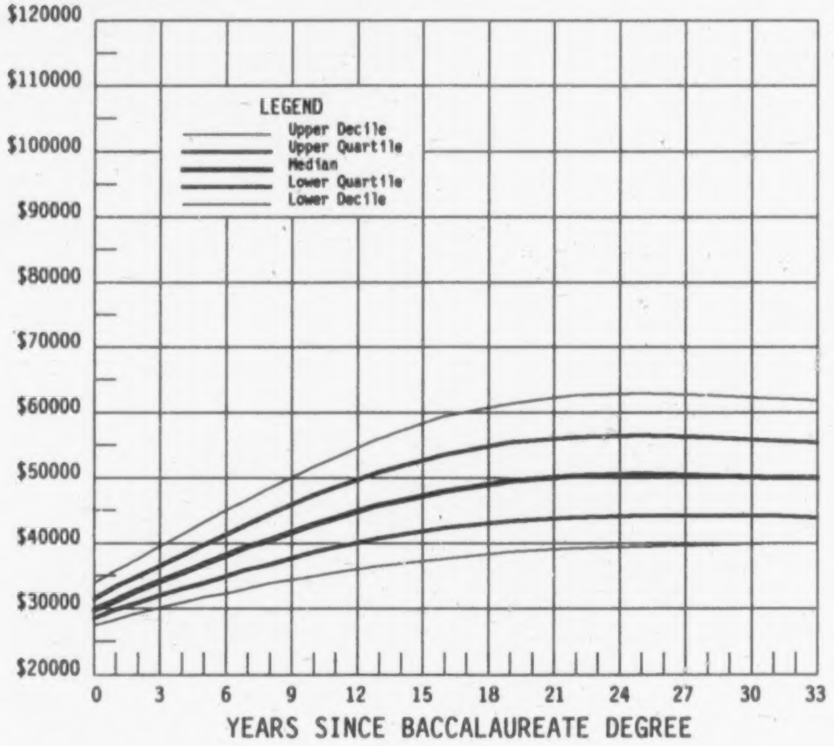
SALARY CURVES FOR ENGINEERS IN NEW ENGLAND
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: NEW ENGLAND, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	61750	61550	61600	61850	62300	63500	65900	68650	71400	73900	75900	77400	78400	79250	74050
Upper Quartile	0	0	0	0	49100	50550	52000	53400	54750	57300	60750	63700	66100	68000	69450	70450	71100	71700	66550
Median	0	0	0	0	41250	42950	44600	46250	47900	50950	55050	58350	60750	62300	63200	63500	63500	62950	59500
Lower Quartile	0	0	0	0	34700	36350	38050	39700	41300	44450	48750	52200	54750	56400	57250	57500	57350	56600	52650
Lower Decile	0	0	0	0	33600	34650	35700	36700	37700	39700	42500	44950	47000	48650	49800	50650	51100	51500	43350
Mean	0	0	0	0	42950	44500	46000	47450	48850	51500	55050	57950	60250	62000	63250	64150	64650	65100	59550
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	61200	63800	63200	60800	62750	62050	66950	67700	72250	75850	75250	76650	81400	80300	74050
Upper Quartile	0	0	0	0	50750	46250	54500	51900	57650	57250	61850	62250	65650	69900	68950	71350	72100	73800	66550
Median	0	0	0	0	39500	41750	43000	42800	50300	53550	55950	57100	59500	63300	62400	63300	64950	66250	59500
Lower Quartile	0	0	0	0	33750	37400	38600	38900	42400	43650	49200	52450	54850	55800	55950	58800	57550	59450	52650
Lower Decile	0	0	0	0	32700	36350	34950	36400	37900	39600	43800	43000	48200	50450	50050	50400	51350	52650	43350
Mean	0	0	0	0	42450	45200	46100	45700	50200	51500	55650	56950	60500	63150	62500	64600	66450	66700	59550
Supporting Data																			
Total Number	2	6	6	12	14	21	24	26	39	143	171	320	255	238	131	157	139	204	1898
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1

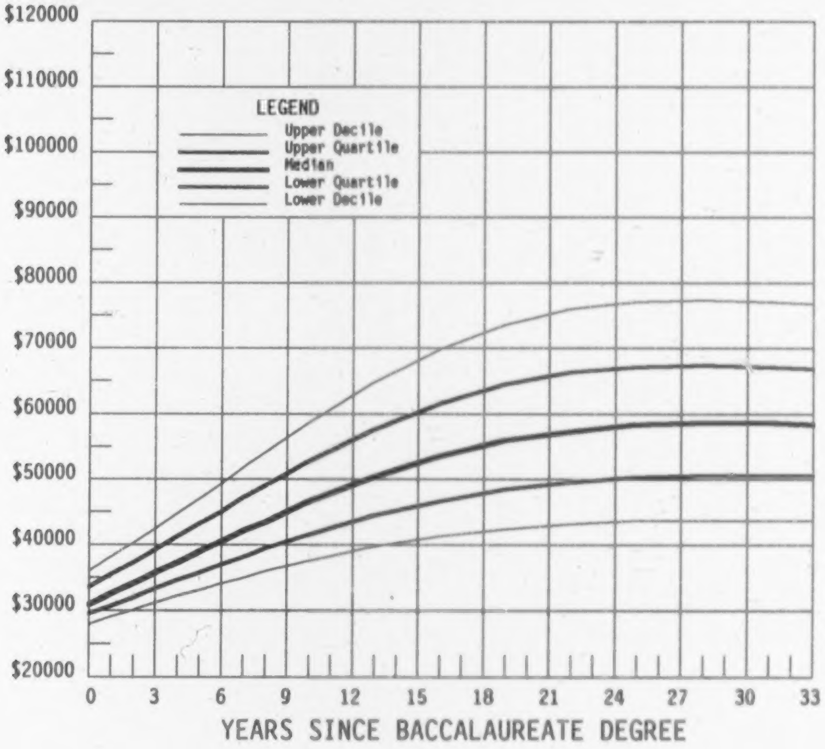
SALARY CURVES FOR ENGINEERS IN NEW ENGLAND
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: NEW ENGLAND, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34000	35800	37600	39450	41300	43150	44950	46750	48500	51800	56100	59350	61450	62550	62850	62600	62100	60700	55550
Upper Quartile	31600	33200	34850	36500	38150	39750	41400	42950	44500	47350	51000	53700	55450	56300	56500	56200	55700	54450	49600
Median	29950	31300	32700	34050	35400	36750	38100	39350	40600	42900	45850	48050	49500	50300	50550	50500	50200	49400	41950
Lower Quartile	28650	29750	30850	31900	32950	34000	35000	36000	36900	38600	40750	42350	43400	44050	44300	44300	44200	43750	35300
Lower Decile	27500	28350	29250	30050	30850	31650	32400	33100	33750	35000	36500	37700	38550	39150	39550	39800	39900	40000	31100
Mean	30550	31900	33250	34600	35950	37250	38550	39800	41050	43300	46200	48400	49900	50750	51100	51100	50900	50250	43050
Raw (Unsmoothod) Statistics																			
Upper Decile	32900	34900	37400	37950	42300	47550	47350	47300	47900	53300	55450	58650	57900	59100	60500	60800	64050	65900	55550
Upper Quartile	31300	32900	34550	36000	38050	40650	42650	43600	44650	48200	51300	53450	53000	54150	54850	55350	58300	56700	49600
Median	29650	31300	32550	33650	35500	37300	38950	39500	40400	43350	45800	48450	49000	48800	48450	51000	51150	50900	41950
Lower Quartile	28750	30100	30750	30850	32850	34400	35500	36050	37050	38750	40150	43300	43300	42650	45000	44450	44500	43950	35300
Lower Decile	28200	28800	29150	28100	30850	31600	32550	33250	34550	35100	36550	38350	38900	39200	41100	38750	39200	38750	31100
Mean	30200	31900	33100	33700	36150	38250	39500	40100	41050	43800	46100	48750	48650	49100	50100	50200	51900	52150	43050
Supporting Data																			
Total Number	259	343	348	351	330	332	307	335	422	773	610	531	443	438	347	241	258	434	7100
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

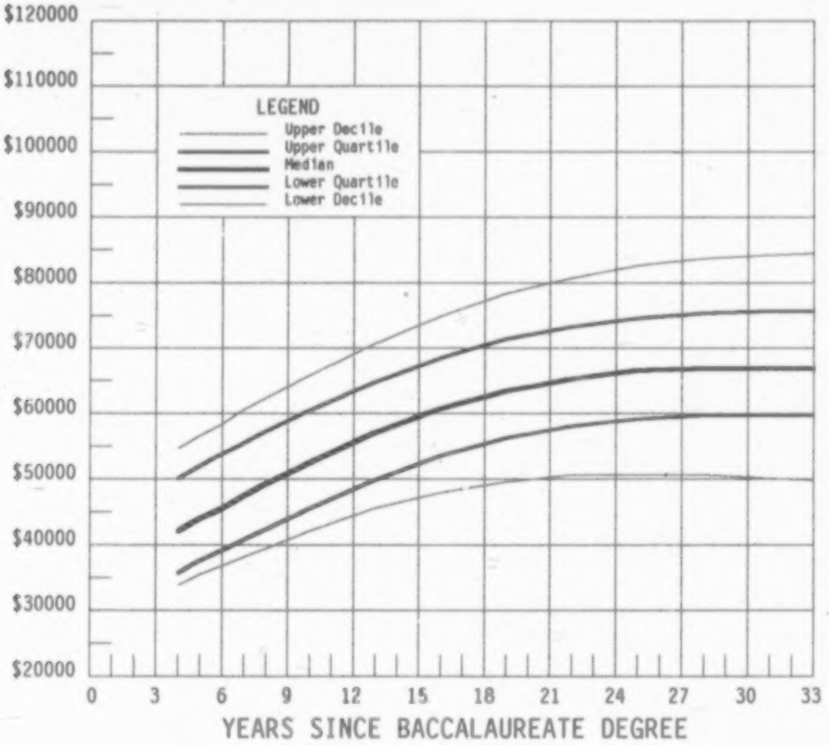
SALARY CURVES FOR ENGINEERS IN MID-ATLANTIC STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MID-ATLANTIC STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36050	38150	40300	42500	44750	47050	49400	51700	54050	58550	64700	69800	73550	75900	77000	77300	77000	75700	67450
Upper Quartile	33700	35500	37400	39300	41250	43200	45150	47100	49050	52750	57700	61700	64600	66350	67200	67350	67100	66000	57700
Median	31050	32600	34150	35750	37350	38950	40500	42100	43600	46550	50450	53650	55950	57450	58300	58550	58550	58000	48250
Lower Quartile	29550	30800	32050	33300	34550	35800	37000	38200	39350	41550	44400	46750	48450	49600	50300	50650	50750	50550	39650
Lower Decile	28050	29100	30150	31150	32150	33150	34100	35050	35900	37550	39700	41350	42500	43250	43650	43850	43850	43650	33750
Mean	31800	33350	34900	36500	38100	39750	41350	42900	44450	47450	51400	54650	57050	58600	59500	59850	59900	59400	49750
Raw (Unsmoothed) Statistics																			
Upper Decile	33450	37550	40850	43750	46000	46900	51000	52700	55500	59200	63400	67000	71450	75650	77650	78350	77750	77000	67450
Upper Quartile	31850	34000	38700	40150	41850	43100	46750	48300	50650	53450	56600	59000	62650	66150	68450	68000	67450	67150	57700
Median	30750	31850	34900	35700	37050	39050	40900	41850	45050	47050	50150	52450	55000	57600	58300	59650	58450	58300	48250
Lower Quartile	29300	30300	32700	33300	34500	36000	37750	37500	39700	41500	44600	45950	47800	50150	50800	51650	50600	50250	39650
Lower Decile	28100	28700	30800	31350	32200	33600	33600	34200	35200	38100	40250	40500	41800	44450	43100	45200	44150	43050	33750
Mean	30800	32450	35750	36950	38350	39700	42150	43000	45250	48000	51050	52900	55900	59000	59950	60850	59750	59850	49750
Supporting Data																			
Total Number	796	1055	1118	1200	1309	1299	1418	1395	1539	3674	3206	2905	2416	2136	1739	1676	1403	2650	32932
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	16	20
Less Than $22000	3	29	4	2	0	0	1	1	0	1	0	0	0	1	0	1	2	0	44

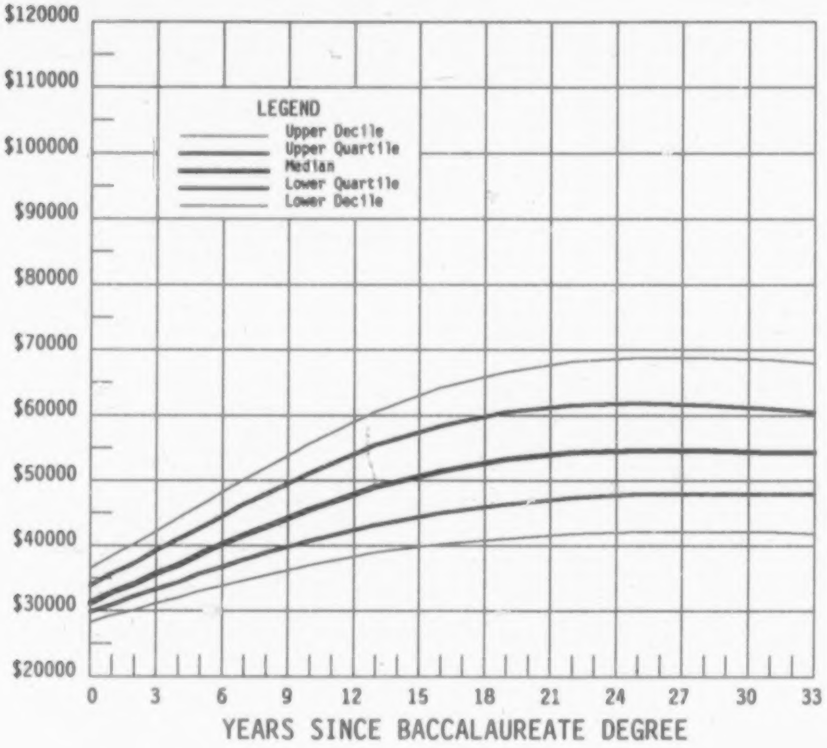
SALARY CURVES FOR ENGINEERS IN MID-ATLANTIC STATES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MID-ATLANTIC STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	54650	56600	58500	60450	62300	65900	70800	74950	78300	80800	82600	83750	84400	85000	79100
Upper Quartile	0	0	0	0	50150	51950	53750	55500	57200	60500	64900	68500	71350	73350	74650	75400	75750	75850	70650
Median	0	0	0	0	42100	43900	45700	47500	49250	52600	57100	60850	63600	65450	66550	67000	67050	66600	62200
Lower Quartile	0	0	0	0	35850	37500	39150	40800	42450	45600	49950	53600	56300	58150	59250	59700	59750	59300	53400
Lower Decile	0	0	0	0	33850	35350	36800	38200	39600	42200	45550	48050	49700	50550	50800	50600	50200	49100	45900
Mean	0	0	0	0	43700	45400	47050	48700	50350	53450	57650	61150	63900	65900	67200	67950	68300	68400	62550
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	63250	48600	58900	62250	65150	68500	69900	72750	77950	81900	84550	84250	83450	84550	79100
Upper Quartile	0	0	0	0	61150	42550	53650	58450	62150	62850	63850	66950	71300	73250	75850	76050	75500	75600	70650
Median	0	0	0	0	50750	37550	41500	47900	57250	54800	57400	58900	63300	64400	68800	67650	66300	66750	62200
Lower Quartile	0	0	0	0	36850	35150	33500	42450	47150	47900	49300	53050	56850	55750	61200	60300	58400	60050	53400
Lower Decile	0	0	0	0	34100	34400	32550	40050	41400	43300	45650	47600	50250	49650	50600	52200	46800	50450	45900
Mean	0	0	0	0	49250	40150	43900	50000	54750	55500	57350	59750	63900	65400	68750	68400	66650	68900	62550
Supporting Data																			
Total Number	8	3	27	39	21	83	100	91	126	641	716	975	772	898	595	641	522	845	7104
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	16	19
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3

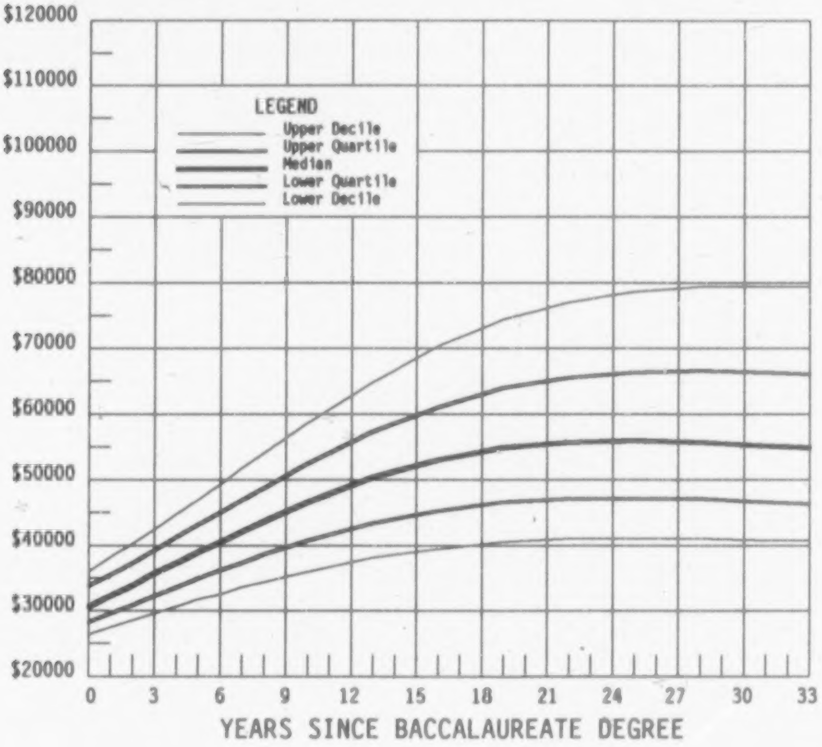
SALARY CURVES FOR ENGINEERS IN MID-ATLANTIC STATES NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MID-ATLANTIC STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36450	38350	40300	42250	44250	46200	48200	50150	52050	55700	60450	64200	66750	68200	68800	68800	68400	67150	60000
Upper Quartile	33850	35600	37400	39200	41000	42800	44600	46350	48050	51300	55400	58500	60500	61550	61800	61500	61000	59600	53300
Median	31200	32700	34200	35700	37200	38650	40150	41550	42950	45550	48950	51500	53300	54300	54750	54750	54500	53700	45150
Lower Quartile	29850	31000	32150	33350	34450	35600	36700	37750	38800	40700	43200	45100	46500	47400	47900	48100	48100	47850	38050
Lower Decile	28250	29250	30200	31150	32100	33000	33850	34700	35500	37000	38800	40200	41150	41750	42000	42100	42000	41750	32800
Mean	31950	33400	34900	36350	37850	39300	40750	42150	43500	46050	49350	51900	53700	54800	55300	55350	55200	54550	46200
Raw (Unsmoothed) Statistics																			
Upper Decile	33400	37500	40700	43150	45750	46850	50400	52000	53850	56000	59550	59750	63750	66100	70500	68400	69850	70000	60000
Upper Quartile	31850	34000	38550	39750	41750	43200	46550	47900	49750	51900	54550	55300	57800	60100	60750	62100	61400	62450	53300
Median	30750	31850	34900	35600	37000	39150	40900	41350	44550	45700	48800	49950	52100	54100	54950	55000	55050	54350	45150
Lower Quartile	29350	30300	32650	33250	34500	36150	37900	37300	39300	40750	43350	44100	45150	47350	47850	49450	48400	48050	38050
Lower Decile	28100	28700	30800	31250	32200	33350	34000	34000	35000	37600	39300	38600	40800	42250	41650	44300	42200	41250	32800
Mean	30800	32400	35700	36550	38200	39650	42000	42500	44350	46400	49250	49450	52200	54350	55450	56150	55700	55600	46200
Supporting Data																			
Total Number	788	1052	1090	1162	1288	1217	1316	1307	1410	3037	2485	1930	1647	1235	1147	1035	880	1805	25830
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Less Than $22000	3	29	2	2	0	0	1	1	0	1	0	0	0	0	0	1	1	0	41

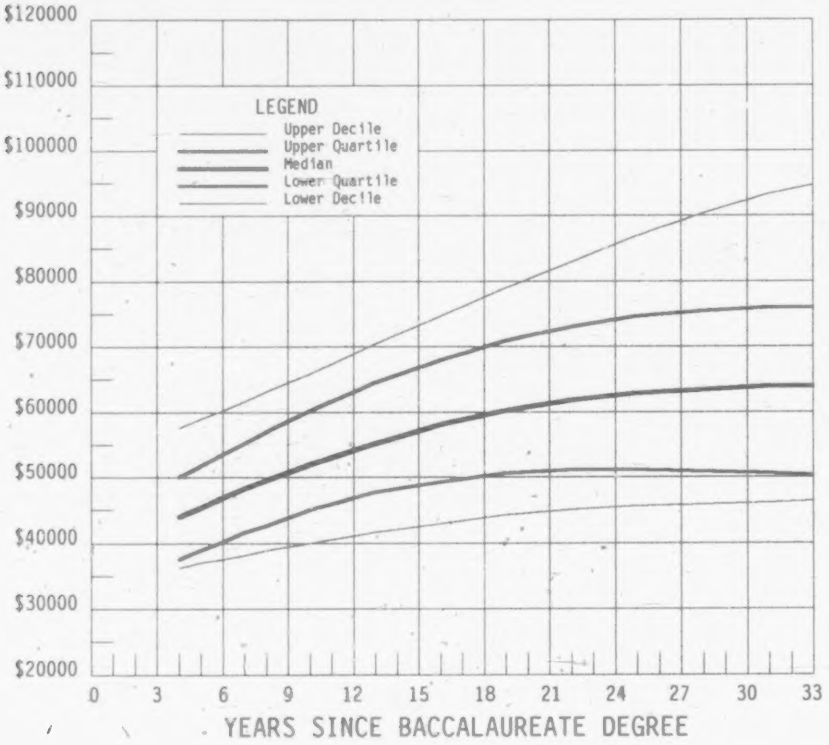
SALARY CURVES FOR ENGINEERS IN EAST NORTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: EAST NORTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36100	38200	40300	42500	44750	47050	49350	51700	54000	58550	64900	70300	74400	77200	78800	79450	79550	78700	66050
Upper Quartile	33750	35550	37400	39300	41200	43150	45050	46950	48850	52450	57250	61150	63900	65650	66450	66600	66350	65300	55250
Median	30750	32350	33950	35600	37250	38900	40500	42100	43650	46600	50300	53100	54900	55800	56000	55700	55200	53950	46000
Lower Quartile	28350	29650	31000	32300	33600	34900	36200	37400	38600	40750	43450	45450	46650	47250	47300	47100	46700	45750	37900
Lower Decile	26500	27550	28600	29650	30650	31650	32650	33550	34450	36100	38100	39550	40500	41000	41150	41050	40850	40300	32300
Mean	31200	32750	34350	35950	37550	39200	40800	42400	43950	46950	50950	54200	56550	58050	58850	59100	59050	58450	48150
Raw (Unsmoothed) Statistics																			
Upper Decile	33400	37950	40550	43400	45850	48100	51150	52800	55850	59550	64650	66800	70650	75500	77150	79700	81450	84350	66050
Upper Quartile	31800	33950	38500	39950	41450	44550	47050	48750	50600	53450	56300	58650	60400	64500	65500	67550	67250	69350	55250
Median	30250	30950	34400	35750	37250	39450	41700	42950	44650	47650	50100	51550	51950	56100	55050	57250	56600	55100	46000
Lower Quartile	27300	28950	31050	33200	33800	35300	36850	37950	39400	41700	43100	44200	43550	49750	45350	48800	48050	46400	37900
Lower Decile	25200	27400	28150	31000	30850	32100	32700	34600	34700	37200	37250	38900	37750	44300	39950	41400	38750	42250	32300
Mean	29750	31900	34600	36550	37950	39700	41900	43500	45200	48200	50600	52250	53150	58450	57500	59500	59600	61650	48150
Supporting Data																			
Total Number	949	976	1105	1238	1392	1077	1278	1228	1297	2961	2738	2457	2287	1688	1389	1155	893	1600	27711
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	8	11	60	91
Less Than $22000	58	0	29	12	1	12	1	0	0	0	0	0	0	0	0	0	0	0	113

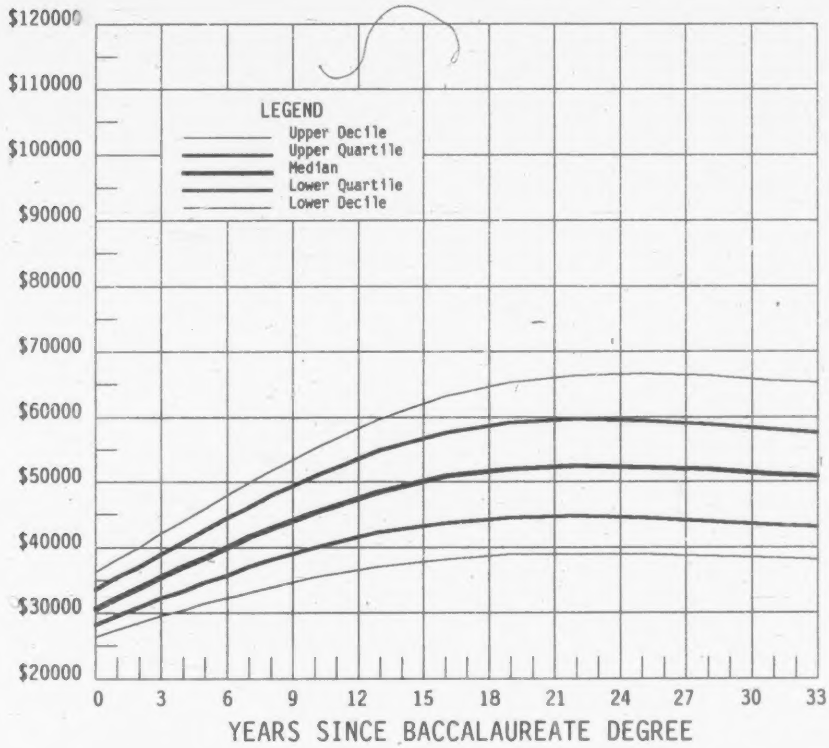
SALARY CURVES FOR ENGINEERS IN EAST NORTH CENTRAL STATES – SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: EAST NORTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	57550	58950	60300	61700	63100	65950	70300	74650	78900	83000	86900	90400	93450	98650	79300
Upper Quartile	0	0	0	0	50100	51850	53600	55300	56950	60150	64500	68100	71000	73100	74550	75500	76000	76400	69050
Median	0	0	0	0	44050	45450	46850	48200	49500	52000	55300	58100	60200	61800	62850	63550	63900	64150	57800
Lower Quartile	0	0	0	0	37700	39050	40350	41600	42750	44950	47600	49450	50600	51150	51200	50950	50550	49550	47850
Lower Decile	0	0	0	0	36350	37000	37650	38250	38850	40050	41650	43000	44150	45000	45600	46000	46250	46450	42000
Mean	0	0	0	0	45100	46450	47750	49000	50250	52700	56050	59050	61550	63650	65300	66550	67450	68700	60250
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	56400	55600	59500	58000	64850	68550	72900	73100	77200	82700	86700	88100	89950	102900	79300
Upper Quartile	0	0	0	0	50150	49950	54450	51350	60100	62200	65550	66400	69300	73300	75350	77600	76400	76050	69050
Median	0	0	0	0	44800	46700	48050	43900	51050	53050	56650	57550	57800	62100	64600	65900	63800	63500	57800
Lower Quartile	0	0	0	0	37900	42700	41950	37150	45800	45650	48400	48900	46400	54400	52700	53850	55050	47000	47850
Lower Decile	0	0	0	0	34600	39100	38050	36050	41500	41150	40900	42650	42250	48600	45000	47800	49100	44150	42000
Mean	0	0	0	0	44700	46800	48500	44800	52700	54200	57500	58200	58800	64750	66000	67800	68550	68250	60250
Supporting Data																			
Total Number	20	16	29	31	78	85	101	239	194	686	849	852	946	775	553	472	411	834	7170
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	7	11	56	84
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

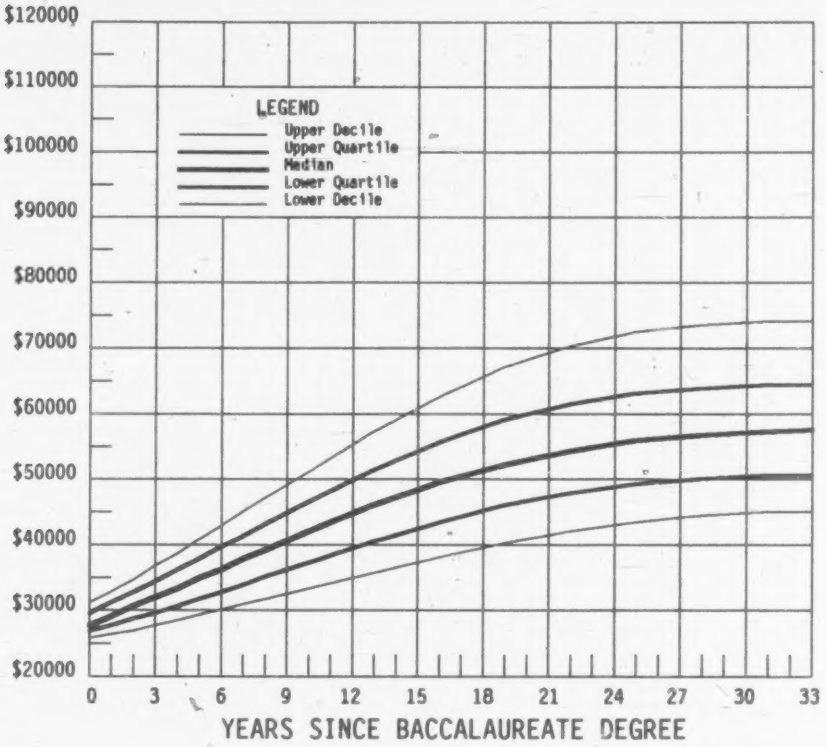
SALARY CURVES FOR ENGINEERS IN EAST NORTH CENTRAL STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: EAST NORTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36250	38150	40100	42050	44050	46000	47950	49850	51700	55200	59700	63100	65250	66350	66600	66300	65700	64150	57650
Upper Quartile	33550	35350	37200	39000	40850	42650	44450	46200	47900	51050	54950	57700	59250	59800	59600	59000	58150	56350	51000
Median	30750	32300	33850	35400	36950	38500	40000	41500	42900	45450	48650	50850	52100	52550	52400	51900	51200	49750	42800
Lower Quartile	28350	29600	30900	32200	33450	34650	35850	37000	38050	40000	42300	43850	44600	44800	44600	44100	43550	42350	35800
Lower Decile	26450	27500	28500	29500	30450	31400	32300	33100	33900	35350	37050	38200	38800	39000	38950	38650	38350	37600	31150
Mean	31050	32550	34100	35600	37150	38650	40150	41550	42950	45500	48700	51000	52350	53000	53000	52650	52150	50900	43950
Raw (Unsmoothed) Statistics																			
Upper Decile	33350	37800	40500	43200	45150	46950	50150	52300	53700	55600	57900	59950	61050	64850	64750	67750	67250	70550	57650
Upper Quartile	31800	33950	38450	39700	40850	43900	46500	48100	49400	51800	53250	55100	55600	59300	58850	59900	58900	60500	51000
Median	30200	30950	34350	35650	37050	39000	41200	42850	43450	46400	48000	48750	49450	53150	51250	53700	51350	51600	42800
Lower Quartile	27250	28900	30950	33200	33600	35050	36450	38450	38850	40800	41350	42500	41600	47500	42750	45500	41150	45350	35800
Lower Decile	25050	27350	28100	30900	30800	31850	32450	34450	33700	36750	35300	37500	36900	39700	39100	38900	36300	40050	31150
Mean	29550	31850	34400	36400	37500	39150	41350	43200	43900	46400	47500	49100	49150	53100	51850	53700	52150	54450	43950
Supporting Data																			
Total Number	929	960	1077	1206	1313	996	1176	990	1102	2277	1889	1605	1340	914	830	681	482	763	20538
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4	6
Less Than $22000	58	0	29	12	1	12	1	0	0	0	0	0	0	0	0	0	0	0	113

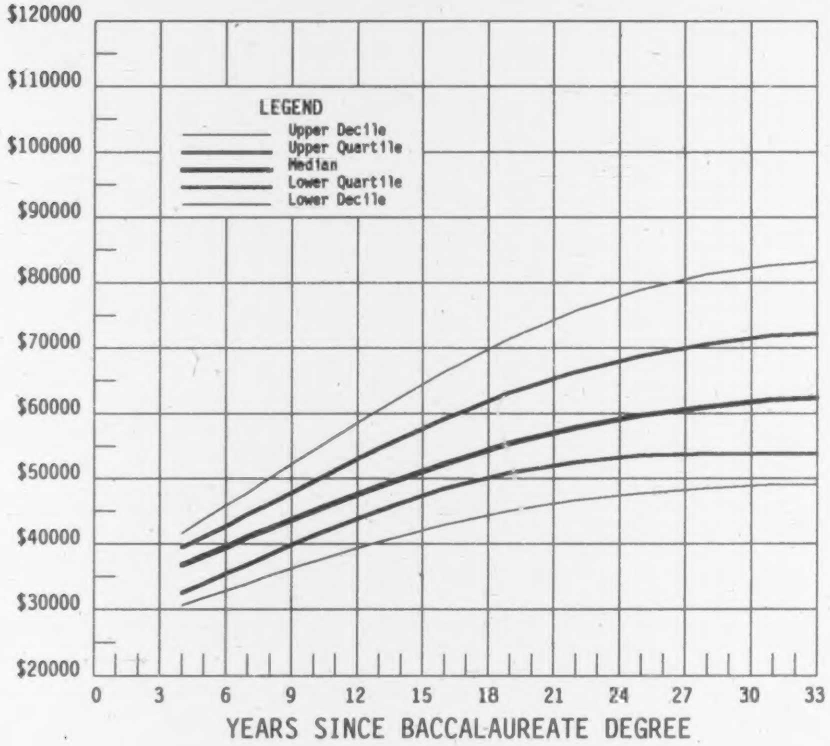
SALARY CURVES FOR ENGINEERS IN WEST NORTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: WEST NORTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31100	32900	34800	36700	38700	40750	42850	44950	47100	51300	57400	62800	67200	70400	72550	73700	74250	74150	62000
Upper Quartile	29550	31150	32750	34450	36150	37900	39650	41400	43200	46650	51500	55750	59100	61600	63200	64100	64500	64500	53350
Median	27800	29150	30550	32000	33400	34850	36350	37800	39250	42050	46050	49500	52300	54450	55950	56900	57400	57750	43300
Lower Quartile	26900	27800	28700	29700	30750	31800	32900	34000	35150	37350	40650	43600	46050	47950	49300	50200	50650	51000	34000
Lower Decile	25750	26400	27050	27800	28500	29300	30100	30900	31700	33350	35800	38150	40250	42050	43400	44400	45050	45600	29850
Mean	28050	29400	30800	32200	33650	35100	36600	38050	39550	42400	46500	50100	53100	55450	57150	58250	58950	59600	45050
Raw (Unsmoothed) Statistics																			
Upper Decile	31850	33300	33900	36800	36950	42350	43450	43450	47000	53300	57600	60050	68350	70550	69100	76750	71350	75450	62000
Upper Quartile	31100	31250	32150	33650	34850	38250	40400	40950	44100	47800	51450	54950	60000	60950	61500	63100	63750	65350	53350
Median	29800	29600	29050	31550	32800	34900	35700	37350	40550	43050	45950	48500	53000	57100	53500	56550	57350	57150	43300
Lower Quartile	28250	28050	27100	30200	29900	32250	31950	33550	34850	38200	41750	43100	46050	51800	46250	51700	49400	48800	34000
Lower Decile	26200	26400	26050	28350	28300	29700	29000	31750	32150	33300	35050	37200	42100	47650	41900	45700	41500	44300	29850
Mean	29650	29900	29650	32100	32850	35200	36200	37250	40000	43350	46500	49050	54400	57650	54900	59250	58100	58500	45050
Supporting Data																			
Total Number	145	111	194	322	284	216	233	272	181	715	455	408	344	270	308	241	239	313	5256
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Less Than $22000	0	1	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	14

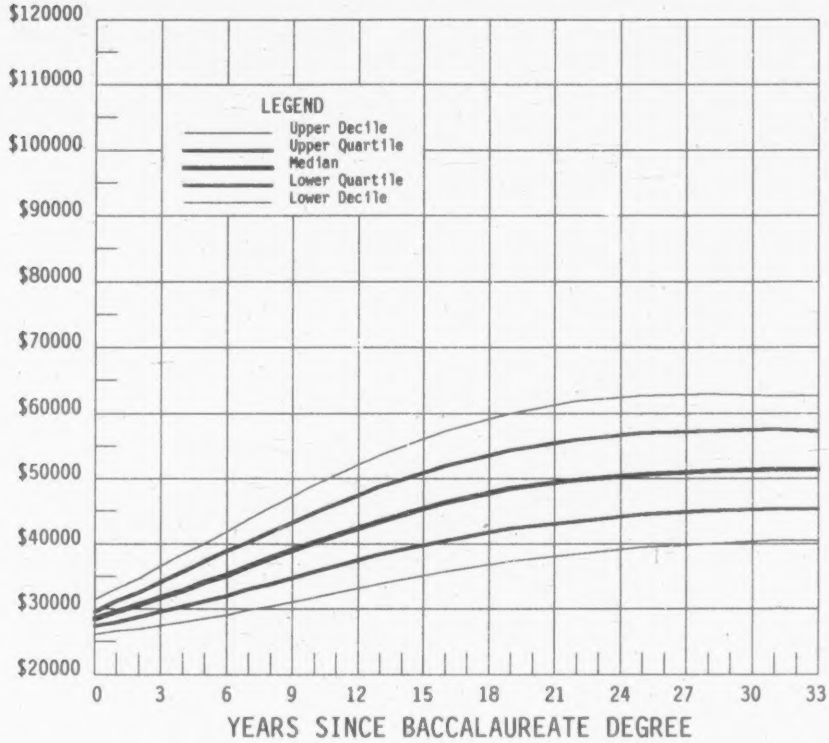
SALARY CURVES FOR ENGINEERS IN WEST NORTH CENTRAL STATES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: WEST NORTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	41650	43700	45750	47850	50000	54300	60550	66400	71500	75700	78900	81200	82700	84350	71800
Upper Quartile	0	0	0	0	39350	41000	42750	44450	46200	49650	54600	59150	63100	66300	68850	70650	71950	73450	61350
Median	0	0	0	0	36800	38200	39600	40950	42350	45050	48900	52350	55350	57750	59650	61100	62050	63300	52900
Lower Quartile	0	0	0	0	32450	33900	35400	36900	38400	41250	45150	48400	50900	52550	53500	53900	53950	53550	44950
Lower Decile	0	0	0	0	30550	31700	32850	34000	35150	37300	40350	42950	45050	46700	47850	48600	49100	49500	38600
Mean	0	0	0	0	36050	37650	39200	40800	42400	45600	50100	54200	57650	60400	62450	63900	64800	65750	54350
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	41400	45550	43500	43300	47850	58500	59800	63950	74950	73600	75100	84850	77750	84600	71800
Upper Quartile	0	0	0	0	35850	43350	42600	42050	45800	51400	55350	57700	64300	65300	63750	76200	70050	72700	61350
Median	0	0	0	0	34000	39700	41050	37500	43250	46550	49250	49950	57800	58600	55600	61450	63250	61850	52900
Lower Quartile	0	0	0	0	29000	35000	35150	35700	40800	42400	45050	47250	51700	55800	46750	55200	56600	52450	44950
Lower Decile	0	0	0	0	27750	32950	32500	32950	31350	39300	41950	41300	45550	52150	37800	51800	52400	49650	38600
Mean	0	0	0	0	33350	39400	39050	38300	42250	47600	50350	51800	59400	61100	57650	66200	66400	64050	54350
Supporting Data																			
Total Number	5	0	3	10	26	34	47	64	50	274	212	202	177	174	173	102	107	195	1863
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

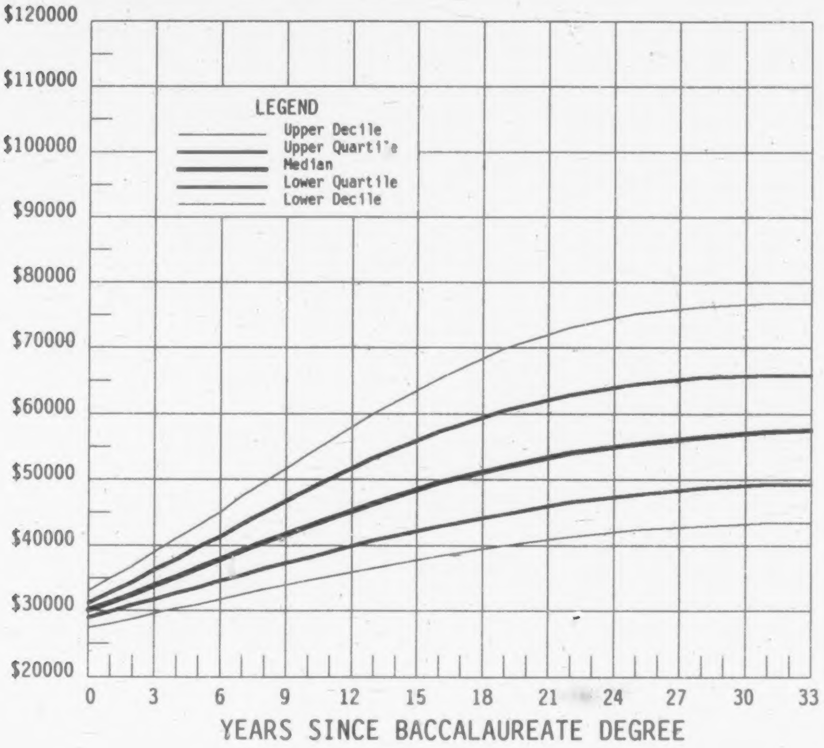
SALARY CURVES FOR ENGINEERS IN WEST NORTH CENTRAL STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: WEST NORTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31350	33000	34750	36500	38300	40100	41900	43700	45500	48950	53550	57350	60100	61850	62700	62950	62800	61950	54900
Upper Quartile	29600	31100	32600	34150	35700	37250	38800	40350	41850	44800	48750	52000	54450	56050	57000	57450	57500	57100	46150
Median	28600	29550	30600	31700	32850	34050	35250	36500	37750	40200	43550	46350	48450	49850	50750	51250	51500	51600	38000
Lower Quartile	27400	28050	28750	29500	30300	31150	32050	32950	33850	35700	38300	40550	42350	43600	44500	45000	45250	45400	31900
Lower Decile	26250	26550	27000	27450	27950	28500	29100	29750	30400	31750	33750	35600	37250	38500	39450	40100	40450	40750	28750
Mean	28700	29750	30850	32000	33150	34350	35550	36750	38000	40350	43600	46400	48550	50100	51150	51750	52050	52250	39900
Raw (Unsmoothed) Statistics																			
Upper Decile	31800	33300	33750	36850	36750	41300	43200	43550	46350	49700	51850	57350	60750	59850	61250	63800	62450	66400	54900
Upper Quartile	31100	31250	32000	33700	34700	37300	39150	40450	42950	45150	47600	52600	55100	56950	56250	60000	58650	55900	46150
Median	29850	29600	29000	31600	32750	34450	34450	37100	38800	41100	43100	45800	48100	51050	51600	54200	52350	46900	38000
Lower Quartile	28200	28050	27100	30250	30050	31750	31100	33200	33600	36450	37250	40350	43750	48000	44000	46900	42750	44150	31900
Lower Decile	26100	26400	26050	28300	28350	29050	28750	29900	32200	29800	33750	36800	39800	41850	42150	44550	39950	33250	28750
Mean	29600	29900	29550	32150	32800	34500	35450	36950	39050	40750	43050	46500	49300	51400	51400	54200	51500	49250	39900
Supporting Data																			
Total Number	139	111	191	311	260	183	186	208	130	441	243	207	165	97	136	140	131	118	3392
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	1	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	14

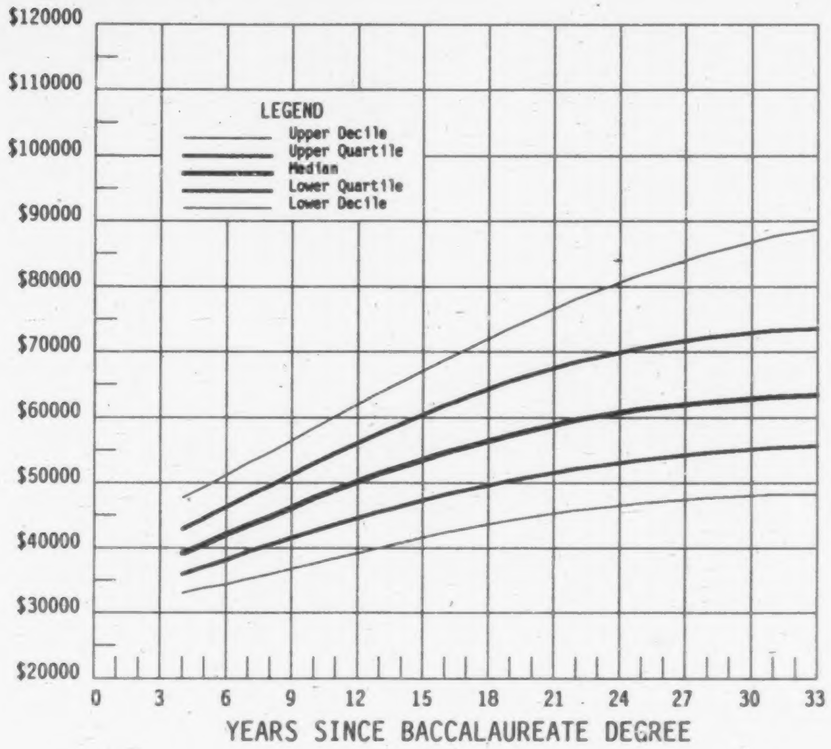
SALARY CURVES FOR ENGINEERS IN SOUTH ATLANTIC STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: SOUTH ATLANTIC STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33100	35000	36900	38900	40950	43050	45200	47350	49500	53800	59950	65350	69750	73000	75100	76350	76900	76900	65050
Upper Quartile	31250	32850	34500	36200	37950	39700	41450	43200	45000	48400	53200	57350	60650	63050	64650	65550	65950	65950	54900
Median	30050	31300	32600	33900	35250	36550	37850	39200	40450	42950	46450	49550	52100	54100	55550	56600	57300	58000	43950
Lower Quartile	29000	29950	30850	31800	32700	33650	34550	35500	36400	38150	40700	42950	44900	46550	47800	48700	49300	49900	35900
Lower Decile	27350	28100	28800	29550	30300	31050	31750	32500	33250	34650	36650	38450	40000	41300	42300	43000	43450	43950	31500
Mean	30150	31500	32850	34200	35550	36950	38350	39700	41100	43750	47500	50850	53650	55900	57600	58750	59550	60450	45850
Raw (Unsmoothed) Statistics																			
Upper Decile	31850	33900	39550	39200	40300	42950	45550	47300	51150	54150	59500	64000	69300	71450	73800	79000	77200	77950	65050
Upper Quartile	31000	32600	35000	36000	37450	40150	41850	43400	46100	48250	52500	57450	60300	62800	64300	66950	66400	66050	54900
Median	29600	31200	32800	34100	34800	37500	38300	39350	41250	42200	45950	49350	52400	53950	55650	58350	57800	57600	43950
Lower Quartile	28400	30150	30850	32200	32150	34800	34200	35450	37600	37600	40350	42850	44500	47500	46950	50100	49400	49950	35900
Lower Decile	26850	28350	28500	30000	29950	31600	32200	32600	33300	34300	36450	38650	39300	41750	41200	44350	44150	44000	31500
Mean	29550	31350	33400	34550	35000	37450	38400	39750	41950	43400	47200	50750	53450	55850	57350	60550	59450	60500	46850
Supporting Data																			
Total Number	596	766	859	957	969	955	983	940	807	2053	1720	1566	1580	1286	1024	908	1039	1949	20949
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	7	2	28	46
Less Than $22000	5	4	7	3	2	1	4	2	1	2	0	1	0	1	0	0	1	1	33

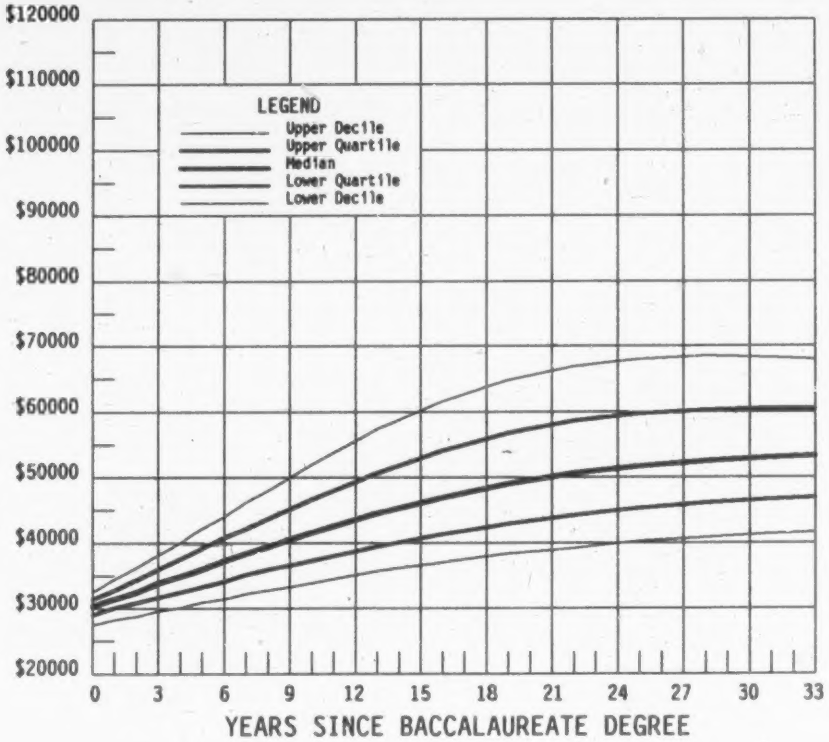
SALARY CURVES FOR ENGINEERS IN SOUTH ATLANTIC STATES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: SOUTH ATLANTIC STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	47700	49450	51200	53000	54750	58350	63700	68850	73700	78050	81900	85100	87750	91750	76550
Upper Quartile	0	0	0	0	42950	44650	46350	48050	49700	53050	57700	61950	65500	68400	70600	72200	73250	74550	65450
Median	0	0	0	0	39200	40650	42050	43500	44900	47600	51400	54700	57450	59650	61300	62450	63250	64100	56400
Lower Quartile	0	0	0	0	35950	37100	38250	39400	40500	42650	45650	48250	50500	52300	53700	54700	55450	56400	47850
Lower Decile	0	0	0	0	33100	33750	34500	35250	36000	37650	40050	42350	44350	45900	47050	47850	48300	48650	41000
Mean	0	0	0	0	39800	41150	42550	43950	45350	48050	52000	55550	58750	61450	63650	65400	66700	68500	58500
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	44250	46350	54900	52600	55900	62200	64100	66850	73800	78950	77950	88400	83950	94600	76550
Upper Quartile	0	0	0	0	37500	43050	49500	47750	52750	56400	58250	61200	63500	67400	69950	75100	72850	75500	65450
Median	0	0	0	0	34750	40650	44750	42600	48050	49650	50300	55100	57200	57200	61400	64600	64250	64200	56400
Lower Quartile	0	0	0	0	33100	38500	41200	38550	41000	42450	45900	48550	50400	50650	53300	56850	56500	56100	47850
Lower Decile	0	0	0	0	32050	35150	36400	33500	37050	37200	39500	42600	44750	47150	45650	48050	50000	47550	41000
Mean	0	0	0	0	35750	40750	45250	43400	47300	49750	52050	55350	58350	60100	62700	67600	65850	69500	58500
Supporting Data																			
Total Number	0	2	67	43	65	93	68	115	116	340	496	687	696	582	422	405	410	722	5326
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	5	2	27	41
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3

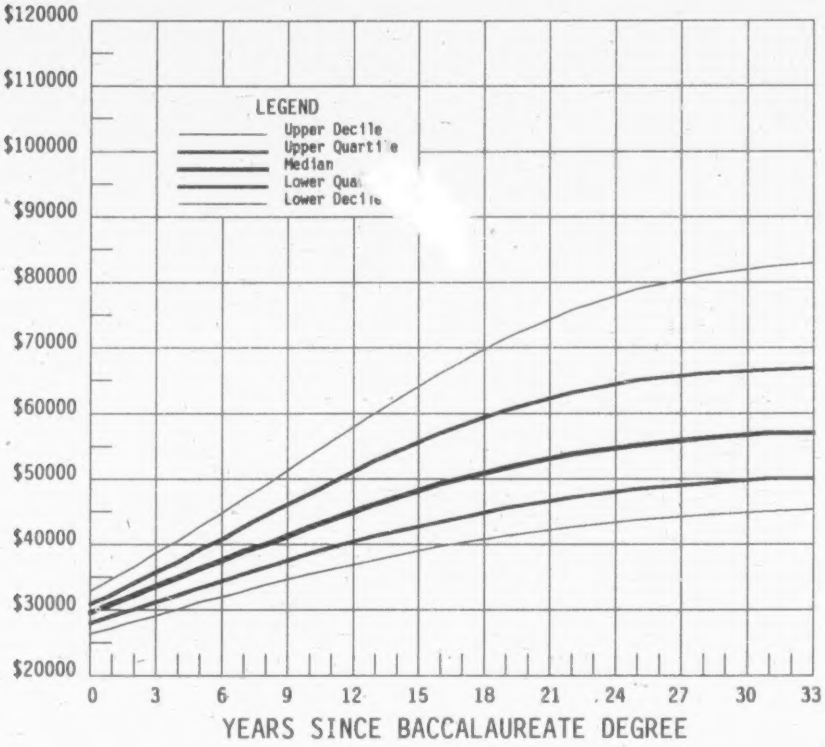
SALARY CURVES FOR ENGINEERS IN SOUTH ATLANTIC STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: SOUTH ATLANTIC STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32500	34300	36200	38150	40100	42100	44100	46100	48100	52000	57300	61650	64900	67000	68050	68400	68250	67300	58700
Upper Quartile	31400	32900	34400	35950	37550	39100	40700	42250	43750	46700	50750	54150	56750	58600	59750	60400	60650	60550	49050
Median	30350	31500	32650	33800	34950	36100	37250	38400	39500	41600	44500	47000	49050	50650	51800	52650	53150	53750	40450
Lower Quartile	29100	30000	30850	31700	32600	33400	34250	35100	35900	37400	39550	41400	42950	44250	45300	46050	46650	47450	34300
Lower Decile	27450	28150	28850	29550	30200	30900	31550	32200	32800	34000	35650	37050	38300	39300	40150	40800	41300	42000	30700
Mean	30150	31400	32650	33900	35150	36450	37650	38900	40100	42450	45600	48300	50450	52050	53200	53950	54400	54800	42850
Raw (Unsmoothed) Statistics																			
Upper Decile	31850	33900	37050	37900	40250	42450	44750	46500	48950	51600	56350	60600	64900	66750	68400	67300	70200	68200	58700
Upper Quartile	31000	32600	34600	35800	37450	39800	41100	43050	44800	46500	49750	52700	56400	58800	60350	60950	61700	61200	49050
Median	29600	31200	32650	33950	34800	37200	38000	38850	40700	41250	43950	45350	47400	51650	52300	54000	53750	54500	40450
Lower Quartile	28400	30150	30700	32150	32000	34600	34000	35300	37000	37200	39300	40800	41900	44950	44550	47400	47050	48100	34300
Lower Decile	26850	28350	28450	29900	29900	31450	32100	32300	33000	34000	35600	36450	37700	38950	38950	42200	42000	42700	30700
Mean	29550	31350	32800	34000	34950	37100	37900	39250	41050	42150	45200	47250	49600	52400	53600	54900	55450	55200	42850
Supporting Data																			
Total Number	596	764	792	915	905	863	916	825	688	1714	1226	881	884	706	602	501	634	1229	15626
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	5
Less Than $22000	5	4	5	3	2	1	4	2	1	2	0	1	0	1	0	0	0	1	29

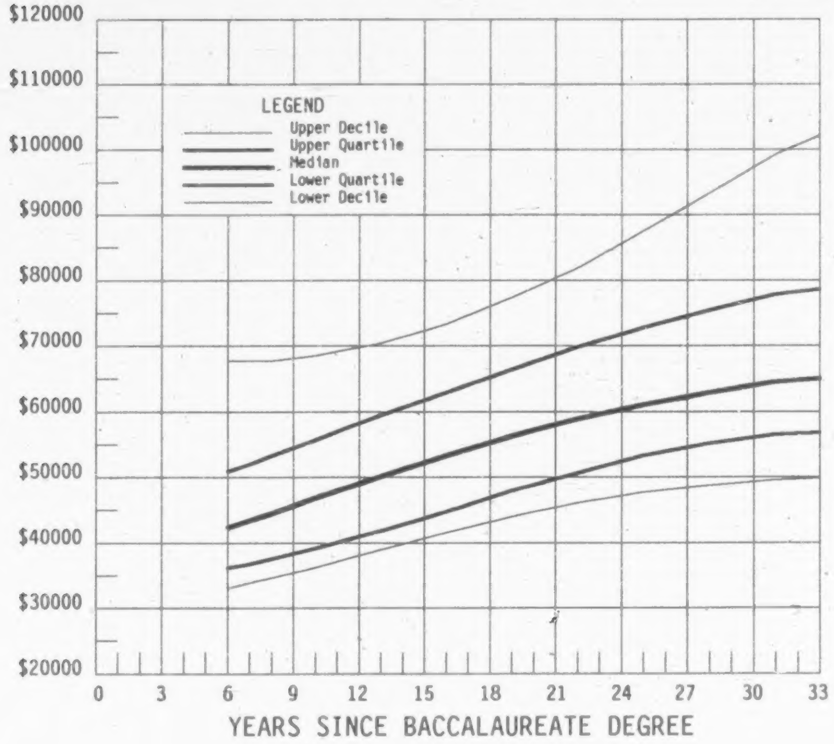
SALARY CURVES FOR ENGINEERS IN EAST SOUTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: EAST SOUTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32900	34750	36650	38600	40650	42700	44850	47000	49200	53600	60100	66150	71400	75650	78850	81100	82500	83900	66750
Upper Quartile	30850	32400	34050	35750	37450	39150	40900	42650	44400	47850	52750	57000	60500	63150	65000	66150	66750	67150	55200
Median	29600	30900	32200	33500	34850	36200	37500	38800	40100	42650	46200	49300	51850	53850	55300	56350	57000	57650	45400
Lower Quartile	28000	29100	30200	31300	32400	33450	34500	35550	36600	38550	41200	43550	45500	47150	48400	49300	50000	50700	36800
Lower Decile	26350	27300	28250	29200	30150	31100	32000	32900	33750	35450	37700	39700	41350	42700	43750	44550	45100	45700	31400
Mean	29750	31100	32450	33850	35300	36700	38150	39600	41050	43850	47900	51500	54600	57150	59050	60450	61400	62500	48100
Raw (Unsmoothed) Statistics																			
Upper Decile	32300	33700	35500	40100	41600	42850	48300	47500	49900	54250	59200	66650	68350	71000	75450	88000	83550	87650	66750
Upper Quartile	30100	31800	33850	36200	37950	38950	44600	42550	45000	48450	51750	55650	59050	62250	64900	66750	68950	68500	55200
Median	29000	30450	32150	34250	35300	36050	39750	38450	40400	42650	46250	47950	50400	54250	55650	57350	58350	57750	45400
Lower Quartile	27850	28700	30250	32150	32250	33750	35800	34950	36550	38100	41450	42600	44950	48200	49650	49200	52000	49400	36800
Lower Decile	26600	26750	28050	30300	29400	31500	32800	32850	33100	35150	38100	39550	40400	43800	44250	44700	45950	44950	31400
Mean	29400	30500	32000	34550	35450	36650	40200	39800	41500	44200	47600	50850	52950	56200	59000	61800	63250	63150	48100
Supporting Data																			
Total Number	252	254	269	230	272	224	276	259	236	678	592	591	550	554	413	388	330	515	6879
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	8	17	37
Less Than $22000	1	3	1	0	1	1	0	1	0	1	0	0	0	0	0	1	0	0	9

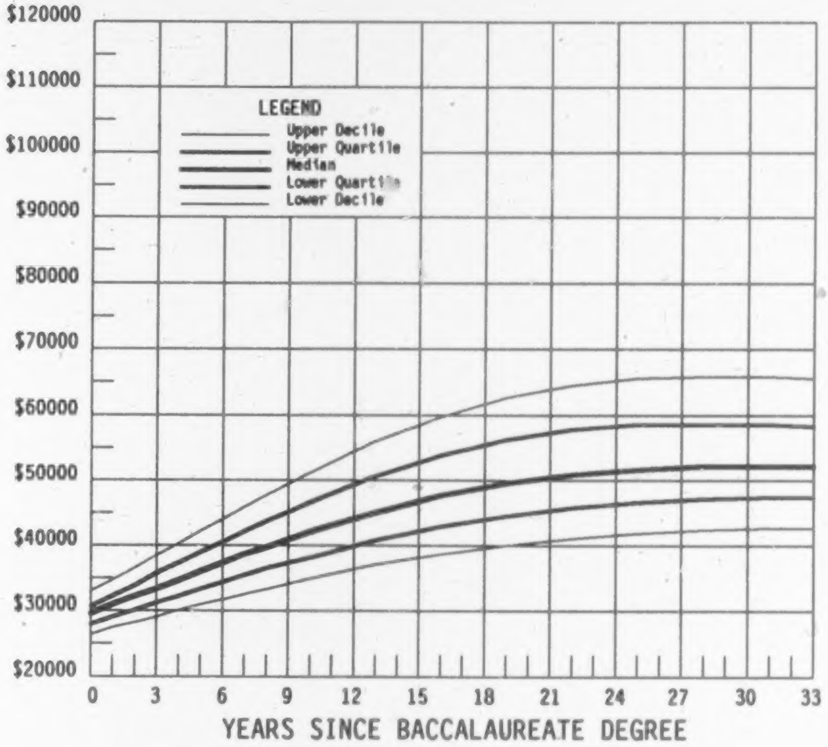
SALARY CURVES FOR ENGINEERS IN EAST SOUTH CENTRAL STATES SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: EAST SOUTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	67800	67700	67800	68400	70350	73350	77250	82000	87400	93250	99100	111200	83950
Upper Quartile	0	0	0	0	0	0	50850	52050	53300	55750	59400	63050	66500	69800	72800	75500	77800	81650	68750
Median	0	0	0	0	0	0	42350	43500	44650	46950	50250	53400	56300	58850	61100	63000	64550	66900	57600
Lower Quartile	0	0	0	0	0	0	36150	36800	37500	39100	41900	44900	47950	50800	53250	55150	56500	57850	48000
Lower Decile	0	0	0	0	0	0	33050	33800	34550	36250	38900	41600	44050	46100	47750	48900	49600	50200	41350
Mean	0	0	0	0	0	0	45500	46450	47400	49350	52450	55700	59050	62350	65500	68400	70900	74900	61400
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	49350	73300	69550	76350	67350	79550	75150	75050	87600	99900	99500	112050	83950
Upper Quartile	0	0	0	0	0	0	47850	48600	54100	58050	60450	65600	65300	67300	70150	79850	74250	84450	68750
Median	0	0	0	0	0	0	44300	39500	44500	48950	51100	53650	54800	58250	62150	64200	62650	67450	57600
Lower Quartile	0	0	0	0	0	0	40050	33550	38750	39000	42700	44800	46400	51450	55200	55900	55150	57050	48000
Lower Decile	0	0	0	0	0	0	33800	32650	36300	36200	38950	40450	44250	47250	50550	46650	50700	48300	41350
Mean	0	0	0	0	0	0	43450	44350	48250	51750	52450	56550	57600	60850	65950	71100	70050	74750	61400
Supporting Data																			
Total Number	0	1	1	5	6	9	27	47	37	115	170	229	231	276	194	182	174	227	1932
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	8	17	37
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

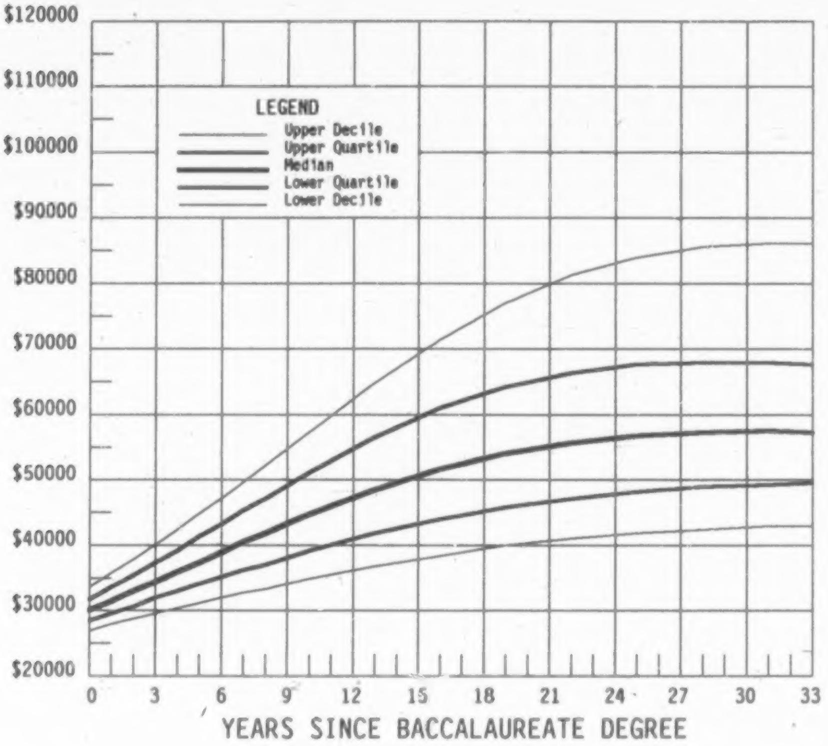
SALARY CURVES FOR ENGINEERS IN EAST SOUTH CENTRAL STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: EAST SOUTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33000	34750	36500	38350	40200	42050	43900	45750	47600	51150	55900	59800	62700	64550	65500	65850	65750	65000	57000
Upper Quartile	30800	32400	34000	35600	37250	38850	40500	42100	43700	46700	50750	53950	56300	57800	58550	58750	58650	57900	49450
Median	29600	30900	32200	33450	34750	36050	37300	38550	39800	42100	45200	47700	49600	50900	51700	52150	52300	52150	41700
Lower Quartile	28100	29200	30250	31300	32350	33400	34400	35400	36400	38250	40750	42850	44600	45750	46600	47150	47500	47800	34400
Lower Decile	26500	27400	28300	29200	30050	30950	31800	32600	33400	34950	37000	38700	40050	41100	41800	42300	42650	42950	30250
Mean	29750	31050	32350	33700	35050	36350	37650	38950	40200	42650	45850	48550	50600	52000	52950	53400	53650	53600	42850
Raw (Unsmoothed) Statistics																			
Upper Decile	32300	33650	35500	40150	41750	42650	47850	45400	48200	51200	53250	58200	61850	63600	65650	65750	71000	65250	57000
Upper Quartile	30100	31800	33800	36200	37900	38800	44000	41700	44000	47150	49650	52100	55700	56650	56950	58800	61750	59150	49450
Median	29000	30400	32150	34200	35250	35850	39400	38400	40000	42100	45500	45850	48300	50800	51500	52250	54450	52550	41700
Lower Quartile	27850	28700	30250	32100	32300	33650	35550	35150	36200	38000	41200	42000	43600	45800	46750	47550	48550	47600	34400
Lower Decile	26600	26750	28050	30250	29500	31350	32700	33100	32750	34850	37100	39000	38850	40700	42100	42400	43150	43100	30250
Mean	29400	30450	32000	34500	35450	36500	39850	38750	40350	42600	45650	47300	49650	51500	52850	53550	55800	53850	42850
Supporting Data																			
Total Number	252	253	268	226	264	213	249	211	200	561	422	364	321	276	217	206	155	289	4948
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	1	3	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	9

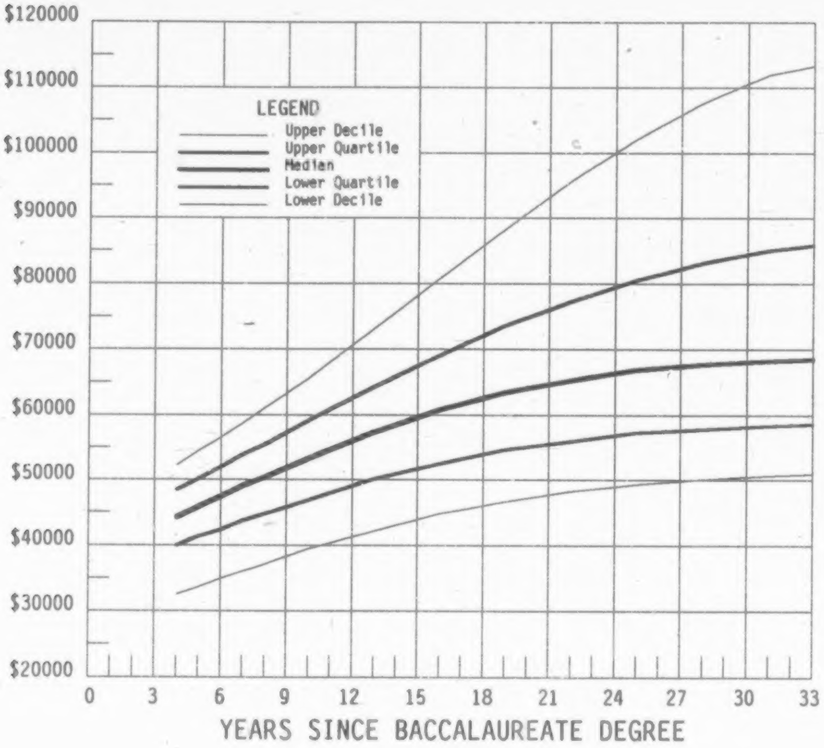
SALARY CURVES FOR ENGINEERS IN WEST SOUTH CENTRAL STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: WEST SOUTH CENTRAL STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33650	35700	37850	40050	42400	44750	47200	49700	52200	57300	64700	71450	77000	81200	83950	85500	86200	86100	66900
Upper Quartile	31650	33500	35350	37250	39250	41200	43250	45250	47250	51150	56550	61000	64350	66500	67650	68000	67900	66950	55650
Median	30100	31550	33000	34500	36000	37450	38950	40450	41900	44700	48500	51650	54050	55750	56750	57300	57500	57300	45000
Lower Quartile	28550	29650	30800	31900	33000	34100	35150	36200	37200	39150	41800	44000	45800	47250	48300	49000	49450	49850	36500
Lower Decile	27050	27900	28750	29550	30350	31150	31950	32700	33450	34900	36800	38500	39900	41050	41900	42500	42900	43300	31700
Mean	30350	31800	33300	34850	36400	37950	39500	41050	42600	45650	49900	53550	56550	58850	60450	61450	62050	62450	48150
Raw (Unsmoothed) Statistics																			
Upper Decile	33400	35400	37400	39100	41800	44700	48700	51150	54650	59300	63850	68200	74450	75850	84850	90050	84050	93700	66900
Upper Quartile	31850	33300	35150	36700	38250	40950	43900	46200	49050	52400	55800	60000	62500	64250	68750	68650	68050	70050	55650
Median	30300	31600	32750	34100	35150	37500	39500	41400	42450	45150	47800	51550	52750	54600	58050	59000	58350	57800	45000
Lower Quartile	28600	30000	30700	31850	32350	34250	35350	35900	37450	39450	41750	43850	45200	47200	50400	50000	49650	48900	36500
Lower Decile	27050	28050	28600	30150	30100	30800	31950	32350	33350	35000	36650	39050	39450	41250	43650	43600	42850	42050	31700
Mean	30450	32000	33100	34500	35700	37850	39950	41450	43500	46350	49400	53000	55400	57400	62350	62900	61750	63900	48150
Supporting Data																			
Total Number	564	529	673	807	828	774	828	952	844	2119	1716	1430	1238	1125	868	757	826	1009	17867
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	2	13	13	11	35	77
Less Than $22000	0	4	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	1	8

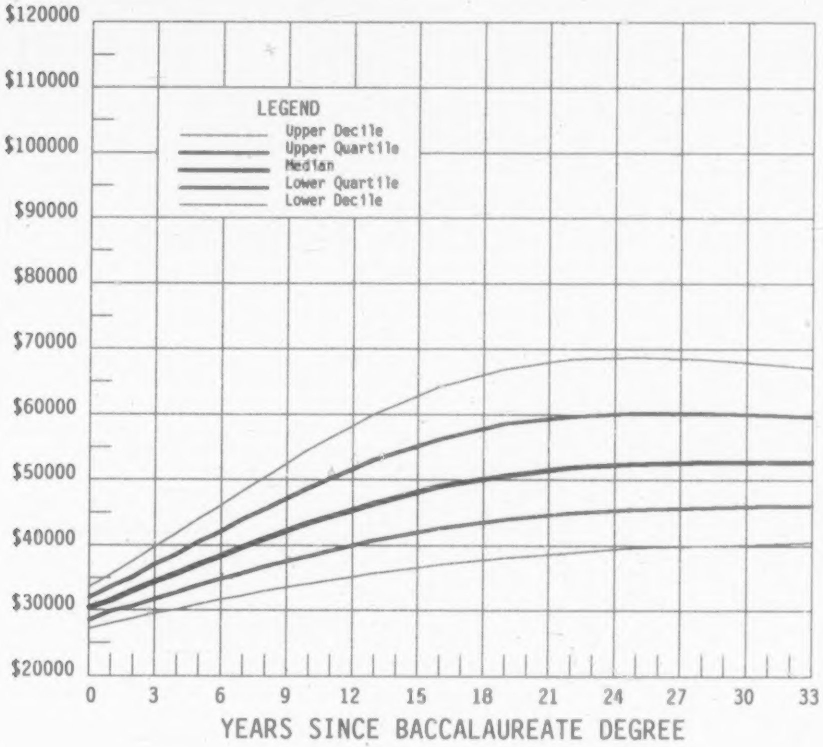
SALARY CURVES FOR ENGINEERS IN WEST SOUTH CENTRAL STATES SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: WEST SOUTH CENTRAL STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	52350	54400	56500	58700	60950	65600	73000	80700	88350	95700	102250	107750	111950	117000	91350
Upper Quartile	0	0	0	0	48400	50150	51950	53750	55550	59100	64300	69150	73550	77350	80550	83150	85100	88000	71900
Median	0	0	0	0	44300	45900	47450	49000	50500	53450	57400	60750	63450	65450	66850	67750	68300	68700	61300
Lower Quartile	0	0	0	0	39950	41200	42450	43650	44800	47000	50050	52550	54600	56100	57250	57950	58450	58900	51800
Lower Decile	0	0	0	0	32450	33700	34900	36050	37200	39350	42250	44700	46700	48250	49400	50200	50750	51200	44300
Mean	0	0	0	0	43950	45500	47100	48700	50250	53400	57900	62100	65850	69050	71750	73850	75500	77800	65200
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	52400	55550	54800	55500	62000	68150	73650	78550	88350	92600	108150	109600	103900	122600	91350
Upper Quartile	0	0	0	0	47000	47400	51100	51400	55850	62250	65700	67400	73750	73600	83700	84400	80400	92100	71900
Median	0	0	0	0	44000	43450	47250	47500	51500	55400	57350	60350	62950	63450	69650	67300	67800	69800	61300
Lower Quartile	0	0	0	0	36000	41450	43900	41100	45000	49550	50100	51750	53300	53800	61000	59700	58300	58550	51800
Lower Decile	0	0	0	0	28800	31050	41600	33750	38550	40700	42150	43050	45500	47650	54000	50900	53300	48700	44300
Mean	0	0	0	0	41900	44300	47800	46300	51100	55650	58200	61000	65350	66550	75750	74700	73650	79000	65200
Supporting Data																			
Total Number	3	4	2	13	24	46	66	114	120	334	410	443	396	428	332	315	279	385	3711
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	2	13	13	11	34	76
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

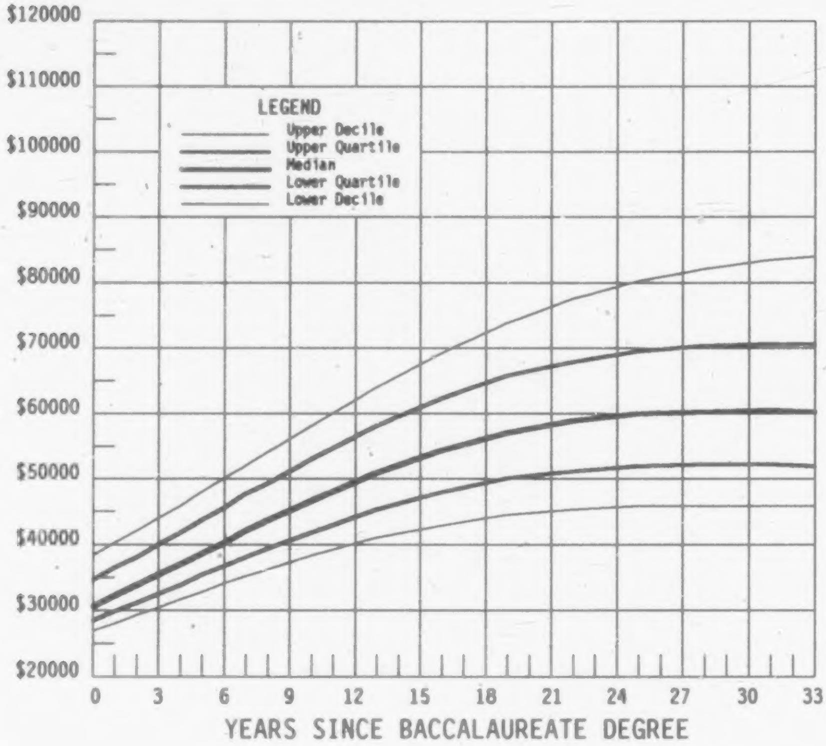
SALARY CURVES FOR ENGINEERS IN WEST SOUTH CENTRAL STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: WEST SOUTH CENTRAL STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33550	35500	37550	39650	41800	43950	46150	48300	50450	54550	60000	64200	67000	68400	68750	68400	67650	65700	58800
Upper Quartile	31900	33550	35250	37000	38750	40450	42200	43900	45600	48800	53000	56250	58550	59850	60400	60350	60050	58950	50350
Median	30300	31600	33000	34350	35700	37050	38400	39700	40950	43350	46500	49000	50800	52000	52650	52900	52900	52500	41850
Lower Quartile	28650	29750	30800	31800	32850	33850	34850	35800	36750	38500	40800	42650	44000	45000	45650	46000	46150	46200	34800
Lower Decile	27200	28000	28750	29550	30250	31000	31700	32350	33000	34200	35800	37150	38200	39050	39650	40100	40400	40650	31000
Mean	30400	31800	33200	34600	36050	37450	38800	40150	41500	44000	47300	49900	51800	53050	53700	53950	53900	53500	43700
Raw (Unsmoothed) Statistics																			
Upper Decile	33350	35300	37400	38750	41150	43900	47400	49850	52650	56150	58650	62550	63900	65450	67000	67700	70800	69950	58800
Upper Quartile	31800	33300	35150	36600	38000	40500	43050	45200	46800	49650	51900	55350	57050	58050	59400	60750	62300	61050	50350
Median	30300	31550	32750	34000	35050	37300	39000	40900	41500	43750	45800	48500	49500	50700	53600	53450	54600	53200	41850
Lower Quartile	28600	30000	30700	31800	32350	34150	35000	35650	36850	38850	40550	42500	43150	44850	46750	46100	47050	46200	34800
Lower Decile	27050	28050	28600	30150	30200	30800	31650	32050	33000	34350	35550	37650	37750	38600	40200	41700	40700	40150	31000
Mean	30350	31800	33050	34350	35550	37450	39300	40800	42250	44650	46600	49400	50600	51800	53900	54150	55700	54550	43700
Supporting Data																			
Total Number	561	525	672	795	804	731	761	837	725	1784	1304	987	841	700	532	437	547	625	14159
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Less Than $22000	0	4	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	1	8

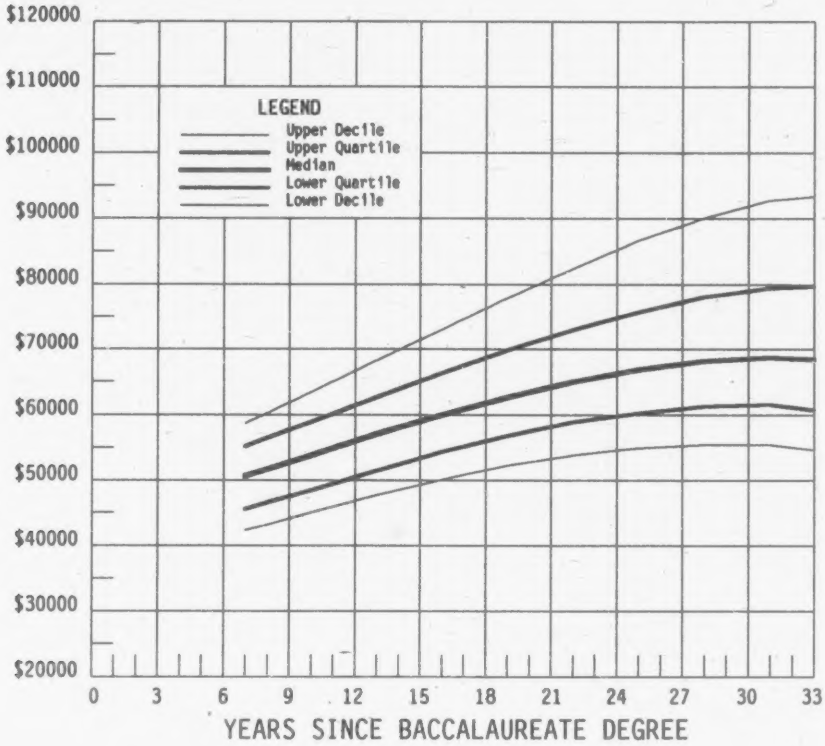
SALARY CURVES FOR ENGINEERS IN MOUNTAIN STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MOUNTAIN STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38300	40150	42050	44000	46000	48000	50050	52050	54100	58150	64000	69300	73800	77500	80250	82250	83600	85050	70100
Upper Quartile	34600	36400	38200	40050	41900	43800	45700	47600	49450	53100	58150	62400	65750	68100	69600	70400	70700	70550	59900
Median	30700	32250	33850	35450	37100	38750	40400	42050	43650	46750	51000	54450	57100	58900	59900	60350	60450	60000	50500
Lower Quartile	28500	29850	31200	32600	34000	35400	36750	38100	39450	41950	45300	48000	50000	51250	51950	52200	52200	51750	41750
Lower Decile	26950	28100	29300	30500	31700	32900	34050	35200	36250	38350	41000	43050	44550	45450	45900	46000	45900	45450	35350
Mean	32100	33600	35150	36750	38300	39900	41500	43100	44700	47750	51950	55600	58500	60700	62150	63050	63550	63800	52300
Raw (Unsmoothed) Statistics																			
Upper Decile	34100	40200	41000	44750	48850	48900	52450	52700	55100	58500	62550	66850	72600	75900	83550	84900	86400	86600	70100
Upper Quartile	32800	34950	37600	39900	43800	45000	48000	47300	50300	53750	57200	61300	63800	66700	70900	71650	72750	72950	59900
Median	30550	32000	33600	36150	36900	39200	41150	41200	43300	47200	50200	54900	56350	58550	60600	61500	61900	60450	50500
Lower Quartile	28650	29550	31150	32900	33550	35850	37250	37500	39400	42100	44950	48850	49250	50400	52050	54000	52600	52600	41750
Lower Decile	26500	27500	29400	30550	32200	33350	34200	35150	36450	38500	40450	43500	43500	45300	46150	47250	45350	46850	35350
Mean	31000	33350	34750	36750	39000	40550	42700	42800	44800	48150	51150	55400	57600	59700	63500	64400	64450	65100	52300
Supporting Data																			
Total Number	97	134	170	182	218	246	251	282	295	780	689	711	579	527	396	344	323	445	6657
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	2	2	8	17
Less Than $22000	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

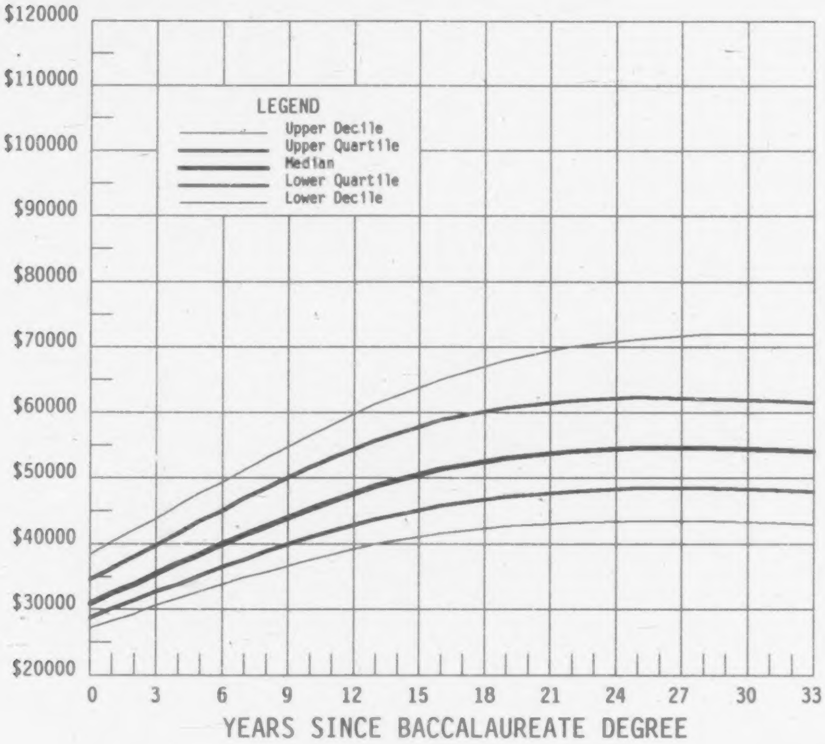
SALARY CURVES FOR ENGINEERS IN MOUNTAIN STATES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MOUNTAIN STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	58750	60250	63350	68150	73050	77850	82400	86600	90100	92750	94550	81850
Upper Quartile	0	0	0	0	0	0	0	55200	56450	58950	62700	66350	69900	73100	75850	78100	79600	79750	71400
Median	0	0	0	0	0	0	0	50700	51750	53900	57050	60050	62800	65150	67050	68300	68900	67000	62550
Lower Quartile	0	0	0	0	0	0	0	45550	46550	48600	51550	54300	56800	58850	60400	61300	61500	58700	55900
Lower Decile	0	0	0	0	0	0	0	42350	43300	45100	47700	50150	52250	53900	55050	55550	55450	52250	50650
Mean	0	0	0	0	0	0	0	50600	51750	54050	57500	60900	64100	67000	69500	71450	72700	72450	65250
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	70800	62650	65250	67100	70550	78650	80900	92500	89400	94850	95000	81850
Upper Quartile	0	0	0	0	0	0	0	63000	60650	59750	62400	63950	70350	73050	79100	79450	78250	80950	71400
Median	0	0	0	0	0	0	0	52500	55000	54750	56400	59650	62150	65050	69050	67900	69050	68250	62550
Lower Quartile	0	0	0	0	0	0	0	47750	51500	48650	50300	54450	56800	58700	61050	60850	61850	59900	55900
Lower Decile	0	0	0	0	0	0	0	38900	50000	43900	47400	50900	52450	52750	56000	55050	54550	53850	50650
Mean	0	0	0	0	0	0	0	54300	55600	54550	56750	59950	64400	66300	72300	71100	72450	73750	65250
Supporting Data																			
Total Number	1	1	1	1	4	7	6	13	20	88	192	296	248	226	160	151	142	190	1744
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	7	12
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

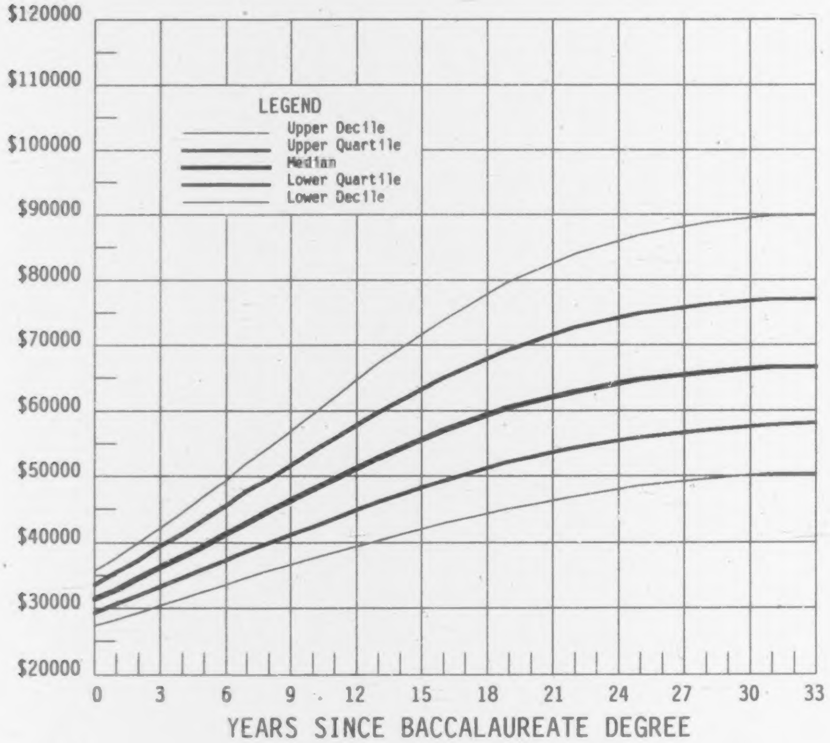
SALARY CURVES FOR ENGINEERS IN MOUNTAIN STATES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: MOUNTAIN STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38350	40150	42000	43850	45750	47600	49450	51300	53100	56600	61300	65150	68100	70100	71300	71900	72100	71850	61550
Upper Quartile	34550	36250	38050	39800	41600	43350	45100	46850	48500	51650	55750	58850	60900	62000	62350	62200	61800	60600	54100
Median	31050	32550	34000	35500	37000	38500	39950	41400	42800	45400	48750	51350	53100	54150	54550	54550	54300	53500	46500
Lower Quartile	28800	30100	31400	32700	33950	35200	36450	37650	38800	41000	43750	45850	47300	48100	48450	48450	48250	47650	39250
Lower Decile	27150	28300	29450	30550	31700	32800	33850	34900	35850	37700	39950	41650	42750	43300	43500	43400	43150	42550	33900
Mean	32100	33550	35050	36550	38050	39500	41000	42450	43850	46500	49950	52750	54750	56000	56650	56900	56850	56350	47700
Raw (Unsmoothed) Statistics																			
Upper Decile	33950	40000	40750	44600	48450	48600	52000	52150	53850	57400	59350	63400	64950	66500	72700	73800	75450	77100	61550
Upper Quartile	32750	34800	37400	39800	43300	44600	47800	46400	48750	52550	54500	57500	57900	60500	63000	63800	63900	64100	54100
Median	30500	31950	33550	36150	36700	39100	40950	40900	42800	46400	48200	50950	51150	52500	55200	56150	55800	55700	46500
Lower Quartile	28650	29550	31100	32850	33500	35800	37150	37400	39100	41600	43500	45750	45500	47200	48300	50200	48150	50200	39250
Lower Decile	26450	27450	29400	30550	32200	33300	34150	35050	36300	38300	39100	41050	41550	43000	44300	44250	42400	45000	33900
Mean	30650	33100	34600	36700	38650	40150	42450	42250	44000	47300	49000	52150	52450	54450	57550	58950	58400	58800	47700
Supporting Data																			
Total Number	96	133	168	181	214	238	246	270	275	690	499	418	334	297	236	192	182	258	4918
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	5
Less Than $22000	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

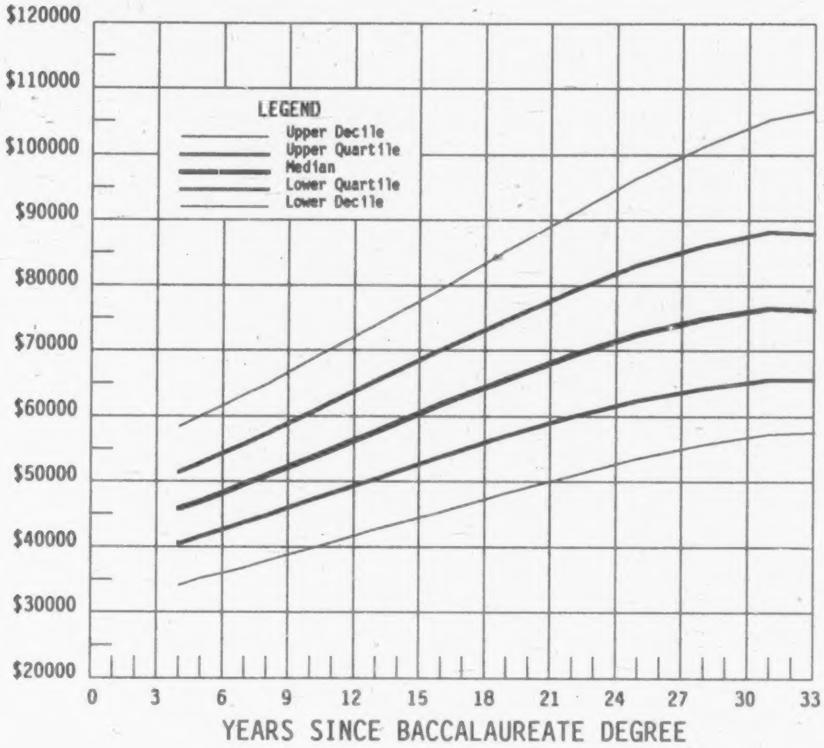
SALARY CURVES FOR ENGINEERS IN PACIFIC STATES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: PACIFIC STATES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35600	37700	39900	42150	44500	46900	49400	51900	54450	59600	67100	73950	79650	84050	87050	88900	89850	90200	77700
Upper Quartile	33600	35450	37400	39350	41350	43400	45500	47600	49700	53850	59850	65150	69450	72750	74950	76300	76950	77250	65500
Median	31350	32900	34550	36200	37900	39600	41300	43000	44750	48100	52850	57000	60450	63000	64850	66000	66600	67050	53600
Lower Quartile	29300	30600	31900	33200	34550	35900	37250	38600	39900	42500	46150	49400	52150	54300	55950	57100	57900	58800	43000
Lower Decile	27350	28350	29400	30450	31500	32500	33550	34600	35600	37600	40400	42950	45150	47000	48450	49550	50300	51050	34900
Mean	31650	33250	34850	36500	38200	39900	41650	43400	45100	48550	53500	57950	61700	64700	66950	68450	69450	70450	55800
Raw (Unsmoothed) Statistics																			
Upper Decile	34350	36900	39800	41950	44550	48850	50850	53700	55850	60400	66600	70850	78050	82250	88150	90400	89650	92100	77700
Upper Quartile	32850	34700	37000	39100	41250	44650	46750	49550	51700	54400	58900	62750	69100	70950	76200	76850	76800	78700	65500
Median	30950	32300	34100	36050	37250	40700	42300	44500	46600	48600	51850	55800	59600	61950	65950	65900	67050	68000	53600
Lower Quartile	28600	30650	31100	33650	34200	36650	37850	39500	41200	43000	45500	48450	50950	53650	57300	57300	58600	59150	43000
Lower Decile	26850	28800	28800	30850	31400	33500	33700	34750	36000	37450	40100	42500	44400	47050	50500	49450	51200	50450	34900
Mean	31100	33050	34250	36400	38000	40950	42400	44550	46500	49050	52800	56550	60900	63450	68500	68950	69550	71200	55800
Supporting Data																			
Total Number	359	402	488	449	502	441	524	640	609	1700	1536	1512	1402	1294	1173	1144	995	1750	16913
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	3	2	14	15	12	40	88
Less Than $22000	0	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	1	5

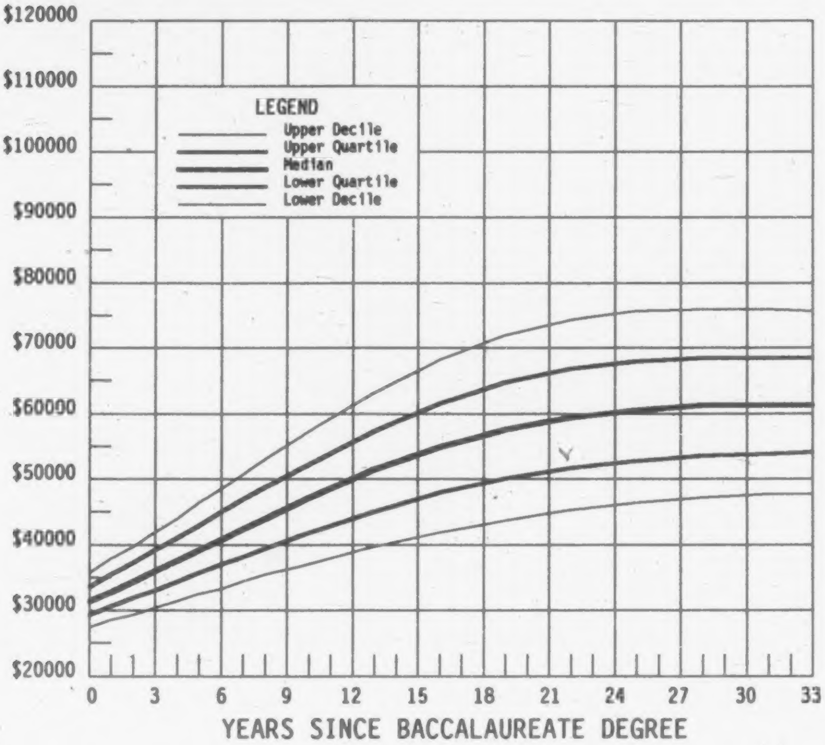
SALARY CURVES FOR ENGINEERS IN PACIFIC STATES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: PACIFIC STATES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	58350	59950	61550	63200	64900	68400	73900	79550	85350	91050	96450	101350	105450	110650	92650
Upper Quartile	0	0	0	0	51400	52850	54300	55800	57300	60450	65250	70100	74800	79250	83100	86150	88200	87800	78950
Median	0	0	0	0	45800	47050	48300	49600	50900	53600	57650	61750	65700	69350	72450	74900	76500	75800	67400
Lower Quartile	0	0	0	0	40600	41650	42700	43800	44850	47100	50450	53750	56950	59900	62400	64350	65600	65100	56550
Lower Decile	0	0	0	0	34250	35100	36000	36900	37800	39700	42550	45450	48350	51050	53550	55650	57250	58450	47850
Mean	0	0	0	0	46100	47400	48700	50000	51350	54150	58400	62750	67050	71050	74650	77600	79700	80200	69800
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	77200	66300	65200	57000	61450	68850	75150	78350	86550	90250	98900	103000	99900	111600	92650
Upper Quartile	0	0	0	0	48500	55250	51900	52200	55400	62300	67150	69150	75700	77100	84400	87900	84750	88500	78950
Median	0	0	0	0	40000	46250	47450	48200	51350	54700	58500	60900	66600	67650	73700	76150	74050	76250	67400
Lower Quartile	0	0	0	0	33000	41250	43600	41850	47900	48500	50100	53700	56500	58250	64150	65750	64400	65100	56550
Lower Decile	0	0	0	0	28950	37400	36800	33250	39300	40650	44150	45450	46450	50050	55850	56750	55800	58550	47850
Mean	0	0	0	0	44700	49100	48700	46950	51700	55300	59150	62000	67300	69300	76850	79000	77300	80450	69800
Supporting Data																			
Total Number	0	3	8	5	14	17	34	80	82	299	398	548	597	592	531	502	444	752	4906
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	3	2	14	15	12	36	84
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SALARY CURVES FOR ENGINEERS IN PACIFIC STATES NON-SUPERVISORS, ALL DEGREE LEVELS

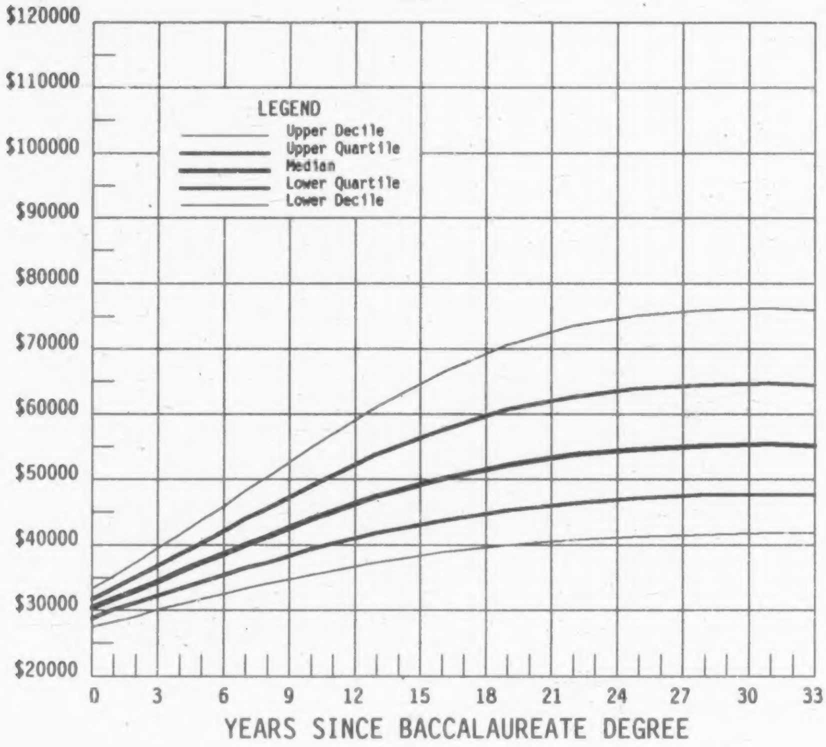


1989 ENGINEERING SALARY STATISTICS: PACIFIC STATES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35700	37750	39800	41950	44100	46350	48550	50800	53000	57300	63250	68200	71900	74350	75650	76100	76000	75050	67800
Upper Quartile	33700	35500	37350	39200	41100	43000	44950	46850	48750	52400	57450	61600	64750	66850	68050	68550	68600	68000	58900
Median	31400	32900	34500	36100	37700	39300	40900	42500	44100	47150	51350	54850	57550	59450	60600	61250	61450	61300	48950
Lower Quartile	29350	30600	31900	33150	34450	35750	37000	38250	39500	41850	45100	47900	50100	51700	52850	53550	53950	54250	39750
Lower Decile	27450	28450	29450	30450	31450	32450	33450	34450	35400	37200	39750	41950	43800	45250	46350	47150	47700	48350	33300
Mean	31700	33250	34800	36350	37950	39550	41150	42700	44300	47300	51450	54950	57700	59700	60950	61700	62050	62050	50100
Raw (Unsmoothed) Statistics																			
Upper Decile	34350	36800	39650	41800	44200	48300	50350	53250	55250	57900	62000	65000	70150	72300	75700	74150	77650	79300	67800
Upper Quartile	32850	34700	36850	39000	41200	44300	46400	49150	50850	52950	56150	59300	63000	65400	67900	67700	70150	71150	58900
Median	30950	32300	34050	36000	37200	40450	42050	44150	45800	47550	50300	53300	56250	58100	61000	61350	62800	63150	48950
Lower Quartile	28600	30650	31050	33600	34250	36550	37650	39450	40800	42250	44400	46600	48500	51050	54150	53100	55300	55650	39750
Lower Decile	26850	28800	28800	30800	31500	33450	33600	35100	35550	37200	39450	41700	42300	44950	48100	47350	48650	48700	33300
Mean	31100	32900	34100	36350	37800	40600	42000	44300	45750	47750	50600	53500	56150	58550	61500	61100	63300	64250	50100
Supporting Data																			
Total Number	359	399	481	445	489	424	491	564	527	1401	1138	965	803	705	640	639	553	998	12006
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Less Than $22000	0	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	1	5

CURVES AND TABLES FOR SELECTED INDUSTRIAL SECTORS

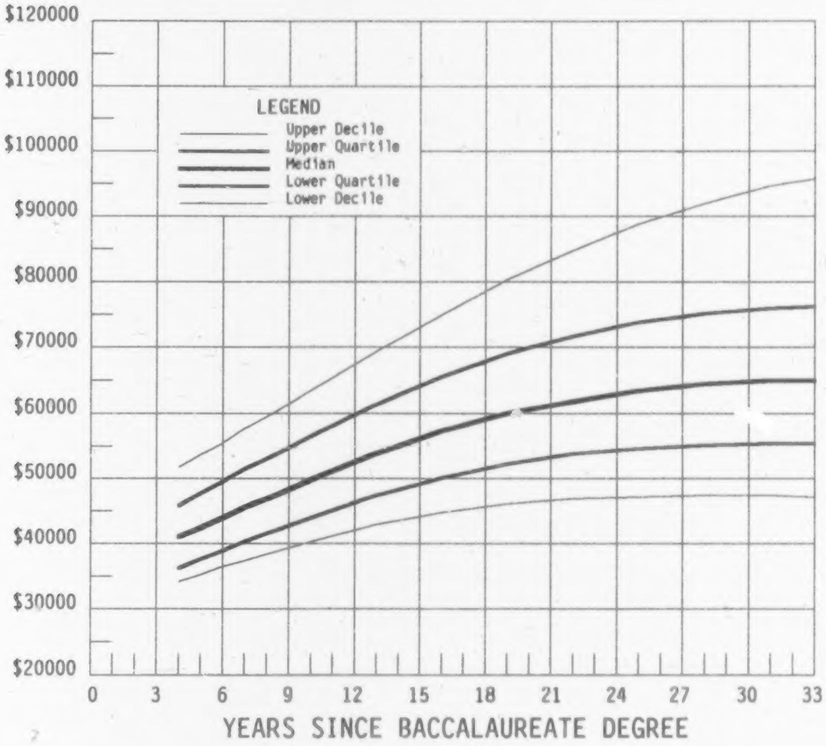
SALARY CURVES FOR ENGINEERS IN ALL MANUFACTURING INDUSTRIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL MANUFACTURING INDUSTRIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33350	35300	37300	39400	41550	43700	45950	48200	50400	54850	61100	66500	70700	73600	75300	76050	76200	75550	64700
Upper Quartile	31800	33450	35150	36900	38650	40400	42200	43950	45700	49100	53800	57700	60700	62750	64000	64600	64750	64350	54150
Median	30350	31700	33100	34500	35900	37300	38700	40050	41400	43950	47350	50150	52300	53800	54700	55200	55350	55200	44150
Lower Quartile	28900	30000	31100	32200	33300	34350	35400	36450	37450	39350	41850	43850	45400	46500	47200	47650	47850	47900	36750
Lower Decile	27400	28300	29200	30050	30900	31750	32600	33400	34150	35550	37400	38900	40050	40850	41350	41650	41800	41900	31850
Mean	30450	31850	33300	34750	36200	37650	39100	40550	42000	44750	48500	51700	54200	56050	57250	57950	58350	58450	47000
Raw (Unsmoothed) Statistics																			
Upper Decile	32950	35100	37400	39550	41000	43950	46400	49150	51250	55250	61700	64700	68850	73750	75300	74900	76000	77200	64700
Upper Quartile	31500	32950	35100	36950	38750	40800	42650	44700	46550	49400	53550	56500	58950	63000	65050	64000	64050	65500	54150
Median	30200	31150	33050	34550	35900	38000	39200	40400	42350	43750	46850	49300	51400	54750	54650	55500	55800	55200	44150
Lower Quartile	28600	29600	31000	32400	33300	35000	35400	36650	38450	39650	41450	43000	43800	48150	45850	49550	47900	47800	36750
Lower Decile	26900	28300	29150	30400	30950	32100	32450	33500	34200	36200	36650	38250	39200	42050	41150	42850	41650	41600	31850
Mean	30100	31450	33350	34800	36250	38050	39350	40950	42700	45050	48250	50700	52900	56900	57150	58000	58100	59100	47000
Supporting Data																			
Total Number	1917	2166	2226	2637	2958	2568	2538	2425	2612	5670	4593	4226	4246	3629	3178	3151	2896	4870	58507
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	4	10	11	24	75	127
Less Than $22000	52	27	29	12	1	14	1	2	4	2	1	1	0	1	0	0	1	1	149

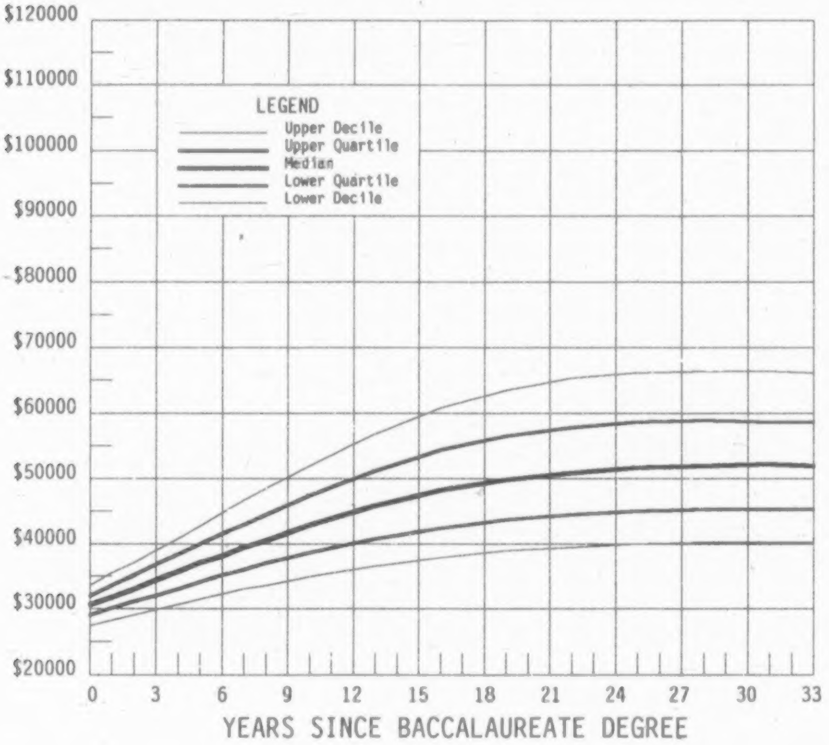
SALARY CURVES FOR ENGINEERS IN ALL MANUFACTURING INDUSTRIES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL MANUFACTURING INDUSTRIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51650	53600	55550	57550	59500	63500	69400	75000	80150	84800	88750	92050	94650	98500	82150
Upper Quartile	0	0	0	0	45950	47750	49550	51350	53100	56550	61350	65600	69050	71750	73750	75100	75950	76800	69450
Median	0	0	0	0	41000	42500	44050	45550	47000	49850	53800	57200	59900	62000	63450	64450	65000	65550	58350
Lower Quartile	0	0	0	0	36150	37550	38900	40250	41550	44050	47400	50150	52300	53800	54700	55250	55450	55400	49100
Lower Decile	0	0	0	0	34150	35300	36400	37450	38500	40400	42850	44750	46050	46900	47300	47450	47400	47050	43050
Mean	0	0	0	0	42450	43950	45400	46900	48350	51200	55200	58800	61900	64450	66450	67950	69050	70500	61250
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	52800	51450	54400	53700	62000	65350	71550	72500	80200	85000	89600	89650	91700	101200	82150
Upper Quartile	0	0	0	0	46300	46700	49200	50500	54900	57200	62250	63400	68800	71950	74950	76500	77150	75800	69450
Median	0	0	0	0	38450	41600	44450	45000	50150	51250	53750	55850	58750	61350	66000	66050	65500	64800	58350
Lower Quartile	0	0	0	0	34500	37800	38300	38000	45750	45450	47500	49000	50250	54550	55150	57700	57650	54050	49100
Lower Decile	0	0	0	0	33000	35100	33000	36600	41950	41800	43850	43550	43550	49100	45500	49350	49450	46350	43050
Mean	0	0	0	0	41650	42850	44450	45400	51250	52500	55750	57550	60550	64850	67200	68450	69850	70250	61250
Supporting Data																			
Total Number	26	23	87	63	115	166	153	273	235	984	1174	1383	1357	1393	1033	926	851	1615	11854
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	4	10	11	24	74	126
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1

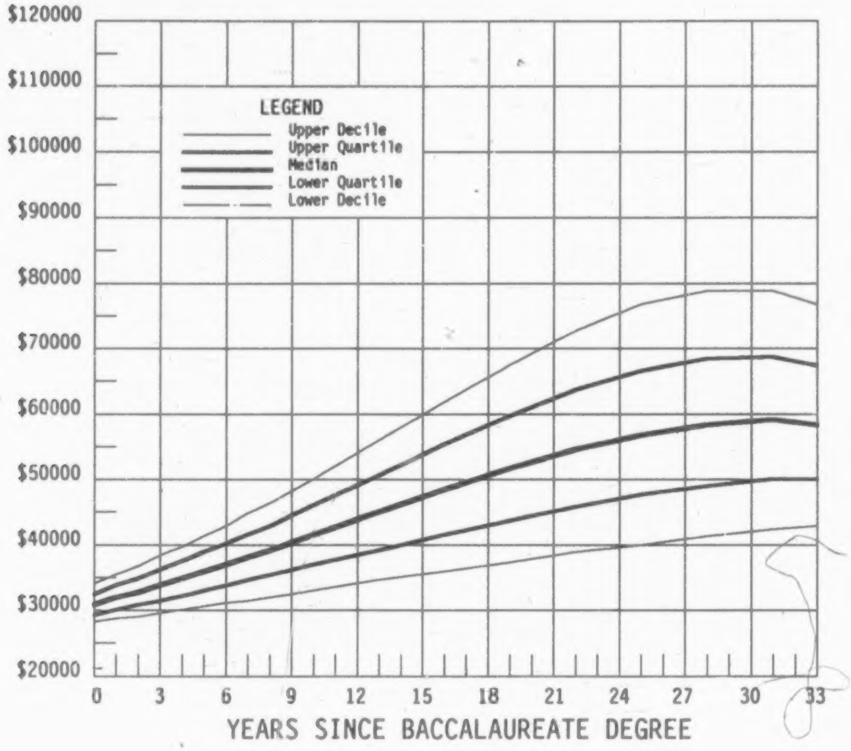
SALARY CURVES FOR ENGINEERS IN ALL MANUFACTURING INDUSTRIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL MANUFACTURING INDUSTRIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33550	35350	37150	39000	40900	42800	44700	46550	48400	52000	56800	60700	63500	65300	66200	66450	66300	65450	57750
Upper Quartile	32000	33550	35100	36700	38300	39900	41500	43050	44550	47450	51300	54350	56550	57950	58650	58900	58800	58200	50050
Median	30550	31850	33100	34400	35700	36950	38200	39400	40600	42850	45800	48150	49900	51050	51750	52050	52150	51950	41650
Lower Quartile	29000	30050	31100	32100	33150	34150	35100	36050	36950	38650	40800	42500	43750	44600	45100	45350	45400	45300	35300
Lower Decile	27500	28350	29150	29950	30750	31550	32250	33000	33650	34950	36550	37850	38800	39450	39900	40150	40250	40250	31150
Mean	30500	31850	33150	34500	35800	37150	38450	39700	40950	43250	46350	48850	50650	51850	52550	52900	52950	52700	43400
Raw (Unsmoothed) Statistics																			
Upper Decile	32900	35050	36850	39100	40800	43600	45750	47900	49500	52400	55950	58900	61000	64850	66450	65650	66600	67600	57750
Upper Quartile	31450	32950	35000	36800	38650	40550	42300	43950	45750	47350	50600	53100	54700	57500	58500	59100	59100	59600	50050
Median	30200	31150	32950	34500	35850	37800	39050	40050	41800	42800	44900	46250	48950	51450	51650	53000	52700	52350	41650
Lower Quartile	28550	29550	30900	32350	33250	34850	35350	36350	38150	38950	40200	41250	42500	44850	43650	47450	45450	45850	35300
Lower Decile	26900	28300	29050	30350	30850	31950	32400	33200	33850	35600	35300	36800	38150	40200	40150	41950	40050	39950	31150
Mean	30000	31400	33050	34600	36000	37750	39000	40400	41850	43500	45650	47350	49250	51950	52300	53700	53200	53500	43400
Supporting Data																			
Total Number	1892	2144	2140	2576	2842	2402	2386	2154	2378	4686	3417	2843	2889	2235	2143	2228	2047	3260	46654
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	52	27	29	12	1	14	1	2	4	2	1	1	0	1	0	0	1	1	148

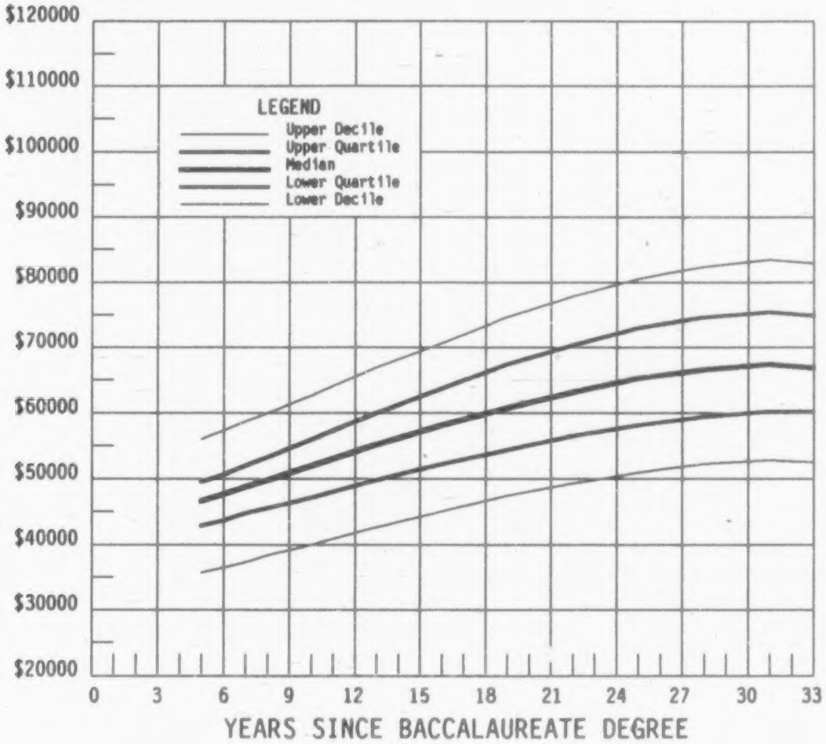
SALARY CURVES FOR ENGINEERS IN AEROSPACE
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: AEROSPACE

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34150	35500	36900	38350	39850	41400	43050	44750	46450	50100	55900	61850	67600	72750	76700	78900	79050	70250	64950
Upper Quartile	32600	33750	34950	36200	37500	38800	40200	41600	43050	46050	50700	55400	59850	63800	66800	68550	68850	62800	55050
Median	30950	31900	32900	33850	34900	35950	37000	38100	39200	41500	44950	48400	51650	54550	56900	58450	59150	56400	42800
Lower Quartile	29450	30150	30850	31600	32300	33050	33850	34600	35350	36950	39300	41650	43850	45900	47700	49150	50150	50350	34750
Lower Decile	28250	28700	29200	29650	30150	30600	31100	31600	32100	33050	34550	36000	37450	38800	40100	41300	42350	44350	31100
Mean	31000	32000	32950	34000	35000	36100	37200	38300	39450	41750	45300	48850	52200	55200	57600	59200	59950	57050	45900
Raw (Unsmoothed) Statistics																			
Upper Decile	32800	34400	35950	37600	39650	42700	43750	46450	49000	52600	57400	62600	66950	70250	73050	73750	74600	73150	64950
Upper Quartile	31450	32900	34200	35750	37300	39400	41200	43200	45150	47550	51650	55050	60250	62250	64350	65950	65200	64850	55050
Median	30200	31300	32500	33500	34950	36300	37900	39100	40650	42250	44450	47650	51400	54450	56250	58000	57250	57300	42800
Lower Quartile	28850	29850	30800	31600	32450	33400	34550	35150	35900	37000	38050	40500	43100	46550	48550	50250	49750	50250	34750
Lower Decile	28000	28250	29250	30150	30400	30850	31650	31900	32550	32450	33250	34950	36550	39250	41750	42600	42900	43750	31100
Mean	30250	31400	32550	33700	34900	36600	38000	39250	40800	42500	45000	48350	52000	54800	56950	58300	58150	58000	45900
Supporting Data																			
Total Number	557	664	1034	1106	1051	999	950	793	679	1528	1085	896	977	1039	1037	1048	1424	2428	19295
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Less Than $22000	3	4	5	1	1	3	2	2	1	2	0	1	0	2	0	0	1	1	29

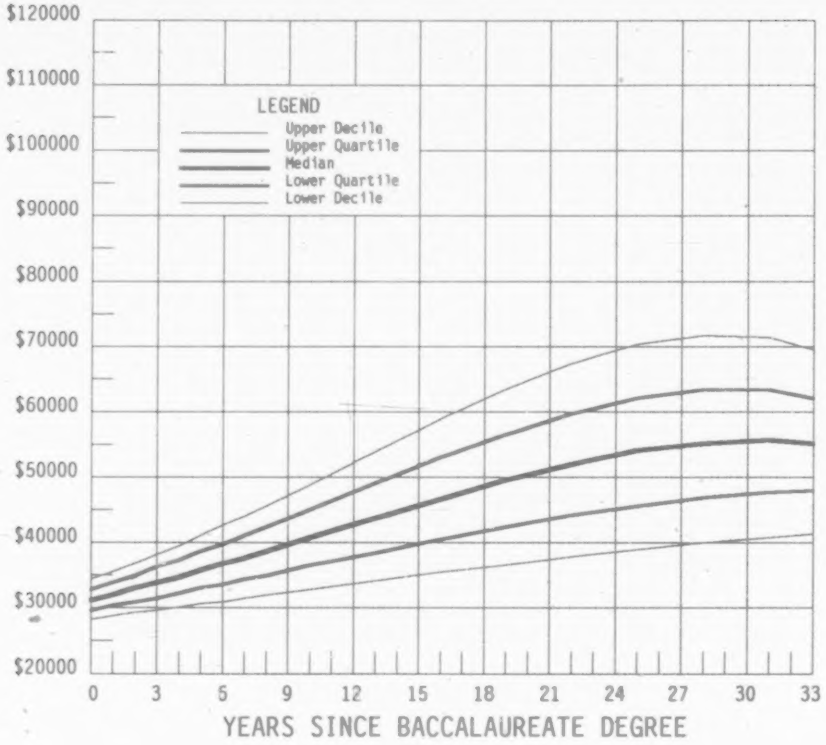
SALARY CURVES FOR ENGINEERS IN AEROSPACE SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: AEROSPACE, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	55950	57300	58650	60000	62750	66850	70800	74550	77800	80500	82450	83500	81700	79550
Upper Quartile	0	0	0	0	0	49500	50750	52050	53350	56000	59950	63800	67350	70500	73000	74700	75500	72900	71150
Median	0	0	0	0	0	46650	47700	48750	49800	51900	55100	58100	60900	63300	65300	66650	67400	65850	63300
Lower Quartile	0	0	0	0	0	42950	43800	44700	45550	47250	49800	52250	54500	56550	58200	59450	60250	59800	55550
Lower Decile	0	0	0	0	0	35750	36600	37450	38300	40000	42550	45050	47350	49350	51000	52150	52800	51650	47450
Mean	0	0	0	0	0	46450	47500	48550	49650	51800	55000	58050	60900	63450	65500	66950	67800	66500	63500
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	54950	68400	58200	57300	60250	65200	71950	78850	77050	82550	78950	83500	82100	79550
Upper Quartile	0	0	0	0	0	45100	50750	52450	54200	56200	59250	64950	68400	70300	73850	73300	74850	73250	71150
Median	0	0	0	0	0	42950	45500	48900	50850	52150	54850	58650	62700	63000	65450	66050	66300	66250	63300
Lower Quartile	0	0	0	0	0	41700	42050	43600	47450	47450	50350	51350	55450	55850	58400	60300	59350	59950	55550
Lower Decile	0	0	0	0	0	33700	39350	35800	44850	39500	40900	45250	46150	49850	51150	53250	52500	51500	47450
Mean	0	0	0	0	0	44550	48250	48200	50950	51300	54050	58600	62500	62950	66200	66300	67100	66750	63500
Supporting Data																			
Total Number	0	3	2	5	8	17	19	19	37	105	129	161	227	306	293	355	411	676	2773
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2

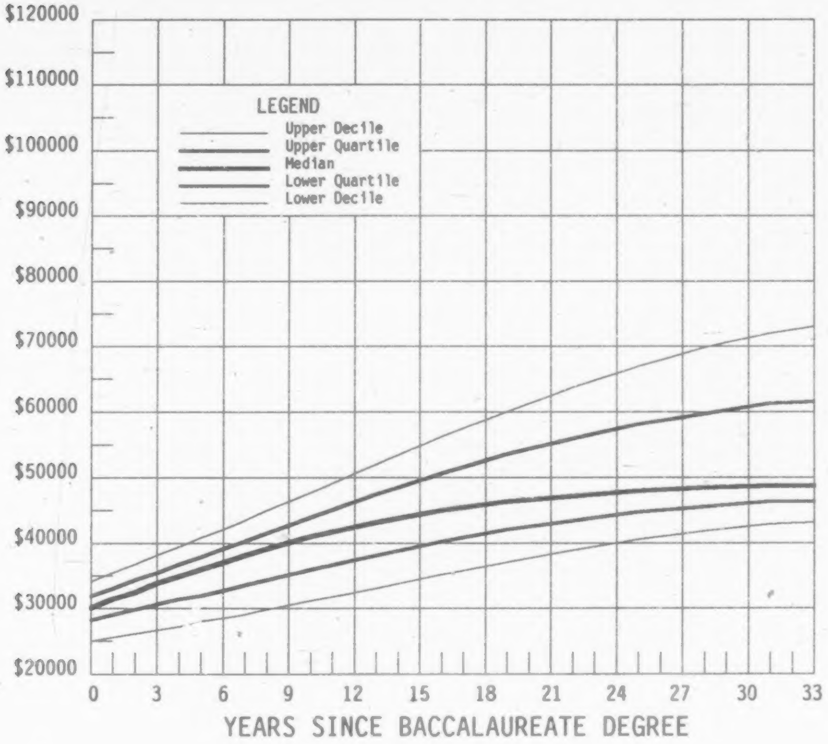
SALARY CURVES FOR ENGINEERS IN AEROSPACE
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: AEROSPACE, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34300	35550	36850	38200	39600	41050	42550	44050	45600	48850	53850	58850	63500	67500	70400	71800	71600	63850	59100
Upper Quartile	32800	33900	35000	36150	37350	38550	39800	41050	42350	44950	49000	52950	56650	59800	62150	63400	63550	58400	50600
Median	31150	32050	32950	33850	34800	35750	36750	37700	38750	40750	43800	46800	49600	52050	54000	55300	55850	53550	40250
Lower Quartile	29650	30300	30950	31600	32300	32950	33650	34300	35000	36400	38450	40450	42400	44150	45650	46900	47800	48250	33900
Lower Decile	28400	28850	29250	29700	30150	30550	31000	31450	31900	32750	34050	35350	36600	37800	38900	39950	40850	42550	30750
Mean	31200	32100	33000	33950	34900	35850	36850	37850	38850	40900	44000	47000	49800	52250	54200	55500	56000	53600	42950
Raw (Unsmoothed) Statistics																			
Upper Decile	32800	34300	35900	37550	39600	42400	43600	46100	47750	51400	55250	58500	62350	63850	66400	67050	67250	66850	59100
Upper Quartile	31450	32900	34200	35700	37300	39200	41000	43000	44450	46600	49900	52050	55600	57800	59350	60300	60600	60550	50600
Median	30200	31250	32500	33500	34950	36200	37800	38950	40200	41750	43200	45800	48600	51700	53350	54350	54050	54600	40250
Lower Quartile	28850	29850	30800	31550	32400	33350	34500	35100	35600	36750	37450	39250	41550	44050	46200	47200	47800	48350	33900
Lower Decile	28000	28250	29250	30150	30350	30850	31600	31800	32450	32300	33050	34250	35450	38150	40450	40950	41700	42000	30750
Mean	30250	31350	32550	33700	34900	36450	37800	39050	40200	41850	43800	46100	48850	51400	53350	54200	54550	54650	42950
Supporting Data																			
Total Number	557	661	1032	1101	1043	982	931	774	642	1423	956	735	750	733	744	693	1013	1752	16522
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	3	4	5	1	1	3	2	2	1	2	0	1	0	1	0	0	0	1	27

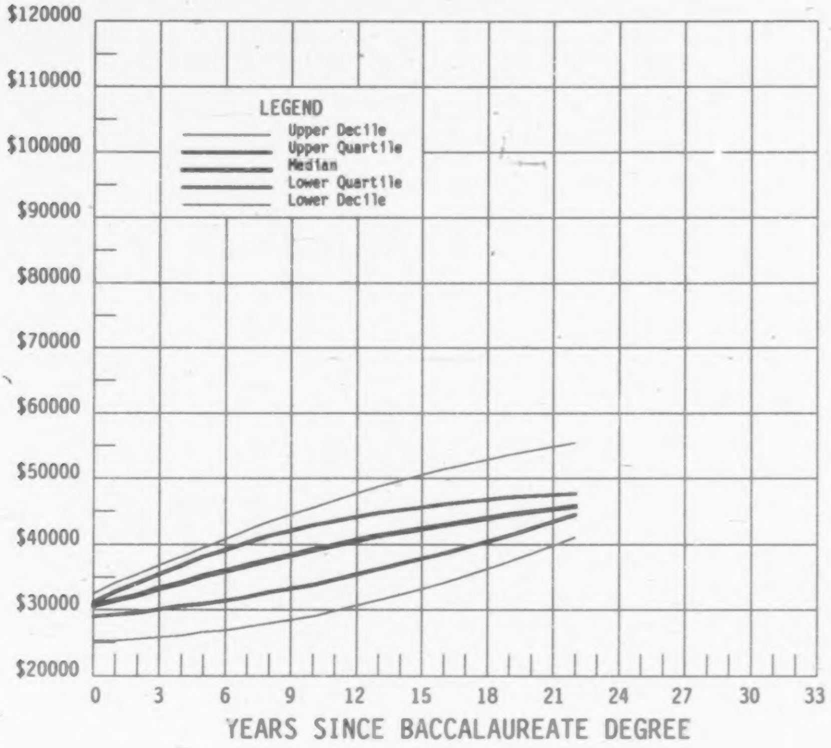
SALARY CURVES FOR ENGINEERS IN AUTOMOTIVE INDUSTRIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: AUTOMOTIVE INDUSTRIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34250	35550	36850	38150	39500	40850	42200	43600	45000	47800	52050	56150	60100	63700	66950	69750	72100	75800	56750
Upper Quartile	31950	33150	34350	35550	36750	37950	39200	40400	41600	44000	47450	50650	53550	56050	58150	59850	61200	63100	47700
Median	30150	31400	32600	33800	35000	36100	37200	38200	39150	40950	43200	44950	46300	47300	48000	48450	48750	49000	40700
Lower Quartile	28300	29050	29800	30550	31350	32100	32900	33650	34450	35950	38150	40200	42000	43500	44750	45700	46350	47000	33750
Lower Decile	25100	25600	26150	26700	27300	27900	28500	29150	29800	31100	33150	35200	37150	39000	40600	41900	42900	44150	30100
Mean	30050	31050	32050	33100	34100	35100	36150	37150	38200	40200	43100	45850	48350	50550	52450	54050	55300	57200	42250
Raw (Unsmoothed) Statistics																			
Upper Decile	31700	33800	39250	47350	39950	41400	0	0	0	43900	52900	57600	58850	66200	55850	0	0	88500	56750
Upper Quartile	31250	32450	35050	36000	38350	38650	0	0	0	42700	48000	53600	50800	55600	50050	0	0	73400	47700
Median	30500	31200	32750	33700	35900	34550	0	0	0	40550	43900	45900	44200	51050	43800	0	0	49850	40700
Lower Quartile	28650	30250	26650	32350	34300	25600	0	0	0	37150	38050	42050	41450	46600	41400	0	0	43350	33750
Lower Decile	25900	26100	24950	24200	32350	24050	0	0	0	35100	27500	39200	38550	42600	36100	0	0	40700	30100
Mean	29700	30800	32150	34250	35800	32800	0	0	0	39900	42800	47550	47450	52750	45250	0	0	61600	42250
Supporting Data																			
Total Number	13	29	13	15	17	14	8	10	9	25	30	39	28	22	14	9	7	12	312
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Less Than $22000	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3

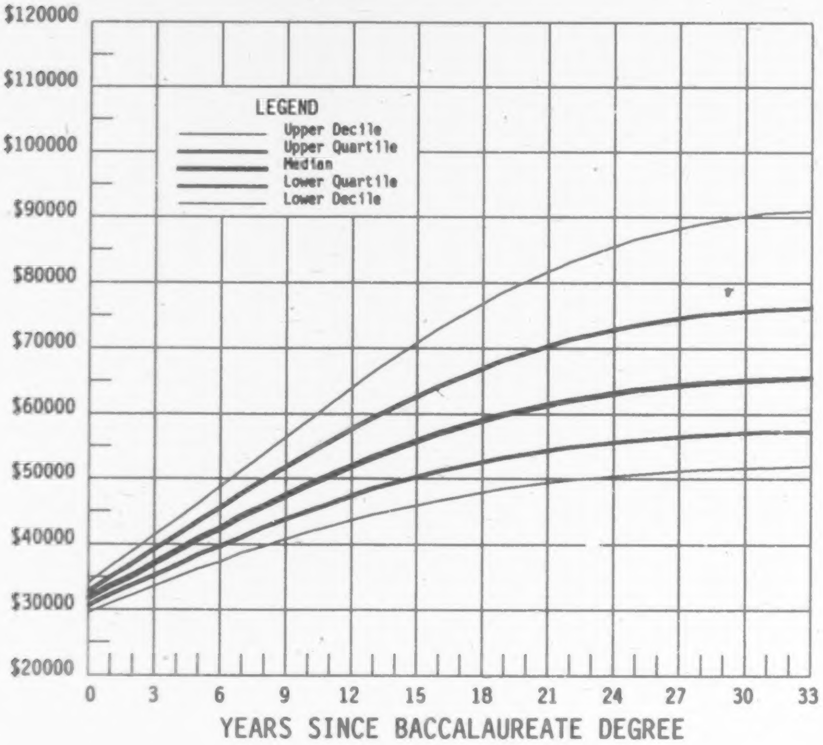
SALARY CURVES FOR ENGINEERS IN AUTOMOTIVE INDUSTRIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: AUTOMOTIVE INDUSTRIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32650	34050	35450	36800	38200	39550	40850	42100	43350	45700	48900	51550	53700	55400	0	0	0	0	49250
Upper Quartile	31250	32750	34200	35550	36850	38050	39200	40250	41200	42900	44850	46250	47200	47800	0	0	0	0	43200
Median	30550	31450	32400	33300	34200	35100	35950	36800	37600	39150	41200	43000	44550	45750	0	0	0	0	38250
Lower Quartile	28950	29300	29700	30100	30550	31000	31550	32100	32700	33950	36150	38650	41400	44450	0	0	0	0	32400
Lower Decile	25200	25400	25600	25900	26200	26600	27000	27500	28000	29200	31400	34100	37350	41150	0	0	0	0	27800
Mean	30000	30800	31600	32450	33250	34100	34900	35750	36600	38250	40650	43000	45250	47300	0	0	0	0	38650
Raw (Unsmoothed) Statistics																			
Upper Decile	31700	33800	35750	38000	39950	40350	0	0	0	43100	47750	54400	48750	64350	0	0	0	0	49250
Upper Quartile	31250	32450	34650	35200	38350	37900	0	0	0	41750	45300	45600	45050	52800	0	0	0	0	43200
Median	30500	31200	32400	33450	35900	33750	0	0	0	39050	41550	42650	42700	48800	0	0	0	0	38250
Lower Quartile	28650	30250	26350	32250	34300	25450	0	0	0	36650	34800	39800	40800	44250	0	0	0	0	32400
Lower Decile	25900	26100	24850	21950	32350	21900	0	0	0	34600	27150	38250	38450	37850	0	0	0	0	27800
Mean	29700	30800	31250	32200	35800	32200	0	0	0	38700	39800	44000	43400	49500	0	0	0	0	38650
Supporting Data																			
Total Number	13	29	12	13	17	13	8	6	9	20	24	21	19	12	9	7	4	9	243
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3

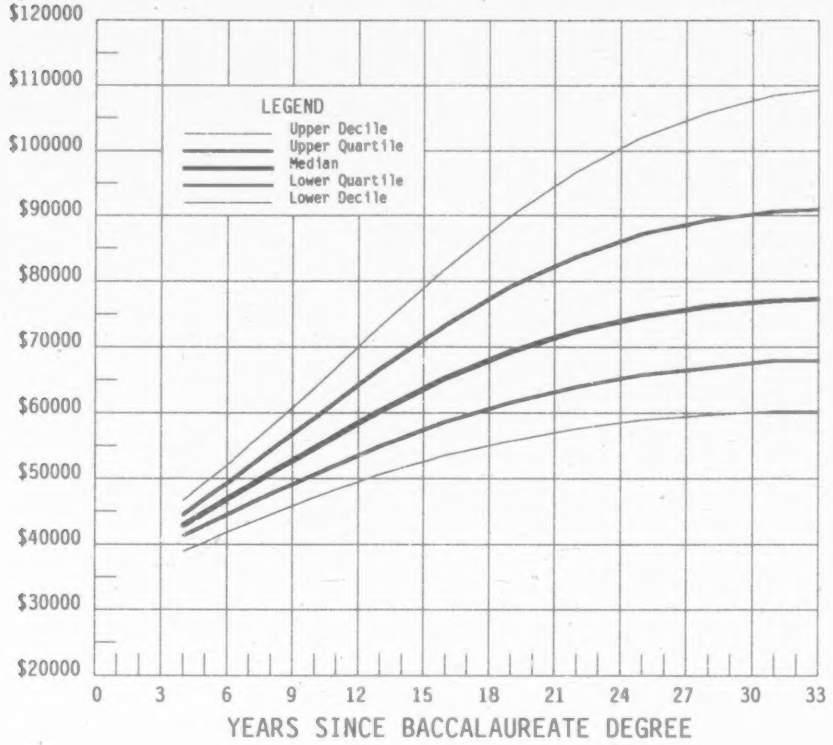
SALARY CURVES FOR ENGINEERS IN CHEMICALS, DRUGS & PLASTICS
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CHEMICALS, DRUGS & PLASTICS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34200	36450	38800	41200	43700	46200	48750	51300	53900	59000	66350	73000	78700	83300	86750	89200	90700	92050	74350
Upper Quartile	32900	34950	37050	39150	41300	43450	45600	47750	49850	53900	59500	64350	68300	71350	73600	75100	76100	76900	62550
Median	31700	33500	35300	37100	38950	40700	42500	44200	45900	49100	53450	57050	59900	62100	63700	64750	65450	66[illegible]00	51400
Lower Quartile	30650	32200	33750	35300	36800	38300	39750	41150	42550	45100	48450	51200	53350	54950	56100	56900	57350	57750	41700
Lower Decile	29700	31050	32350	33650	34950	36200	37400	38550	39700	41750	44500	46750	48500	49850	50800	51400	51800	52150	34500
Mean	31850	33650	35450	37300	39150	40950	42800	44600	46400	49850	54600	58700	62100	64800	66800	68250	69150	70000	53800
Raw (Unsmoothed) Statistics																			
Upper Decile	34350	36900	37750	40100	44450	46650	49100	51650	53350	58400	66950	72550	79900	83350	90450	92200	87850	88600	74350
Upper Quartile	33450	35000	36100	37750	41000	44250	45900	48300	50100	53700	59300	64600	68450	72050	75150	75950	75500	75000	62550
Median	32350	33300	34800	36000	38250	41100	42850	44500	46800	49000	53350	56650	60000	63450	65050	64450	65550	64450	51400
Lower Quartile	31100	32100	33350	34650	36250	38100	40000	41700	43050	45000	48150	51100	53500	55950	57050	57200	57500	56300	41700
Lower Decile	30300	30650	32100	33150	34450	36100	37400	39050	39800	41600	44600	47100	48300	50550	52050	51650	52350	50350	34500
Mean	32350	33650	34750	36350	38950	41200	43050	44950	46750	49600	54500	58550	62450	65650	68600	69400	68250	68050	53800
Supporting Data																			
Total Number	662	577	388	489	541	480	478	690	725	1394	1129	1139	1102	1062	1014	719	631	982	14190
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	3	4	10	15	8	22	63
Less Than $22000	1	0	4	2	1	2	1	1	0	0	1	0	1	0	0	2	2	1	18

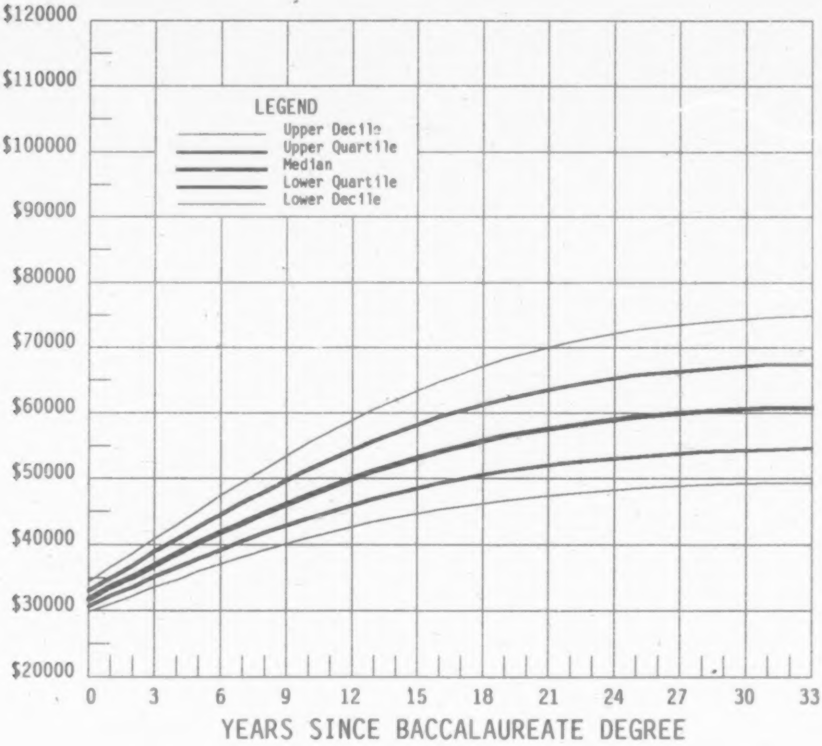
SALARY CURVES FOR ENGINEERS IN CHEMICALS, DRUGS & PLASTICS
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CHEMICALS, DRUGS & PLASTICS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	46700	49350	52100	54950	57850	63800	72950	81850	89900	96750	102100	106000	108600	111400	91900
Upper Quartile	0	0	0	0	44600	46950	49350	51800	54300	59250	66600	73350	79150	83750	87100	89300	90600	91650	77500
Median	0	0	0	0	42950	44900	46900	48900	50900	54800	60400	65300	69400	72550	74800	76250	77150	77800	66100
Lower Quartile	0	0	0	0	41200	42850	44500	46100	47700	50750	54950	58600	61600	64000	65800	67050	67900	68650	55600
Lower Decile	0	0	0	0	38900	40350	41800	43200	44600	47150	50600	53500	55800	57550	58850	59700	60250	60700	48900
Mean	0	0	0	0	42950	44950	46950	49000	51050	55150	61150	66700	71550	75550	78650	80850	82250	83500	69000
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	46850	49200	52400	55200	57600	63650	74150	79450	91300	93300	108250	113300	97800	111000	91900
Upper Quartile	0	0	0	0	45500	46850	49500	52600	53500	58750	67250	72700	80050	81550	90000	91550	87350	90500	77500
Median	0	0	0	0	43200	45400	46200	50050	50650	54550	59950	66050	69000	71900	75850	77800	76100	76550	66100
Lower Quartile	0	0	0	0	40600	44000	43250	47100	47950	50750	54750	58200	61150	64500	67800	66200	67650	67050	55600
Lower Decile	0	0	0	0	38600	40400	41000	44400	44950	46750	50950	53000	54900	58350	61300	58750	59250	59350	48900
Mean	0	0	0	0	43000	45050	46500	49900	50800	54900	61450	66350	71800	74500	80900	82350	79550	82100	69000
Supporting Data																			
Total Number	2	9	4	17	36	36	70	103	142	358	388	423	426	435	388	281	217	284	3621
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	3	4	10	15	8	20	60
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

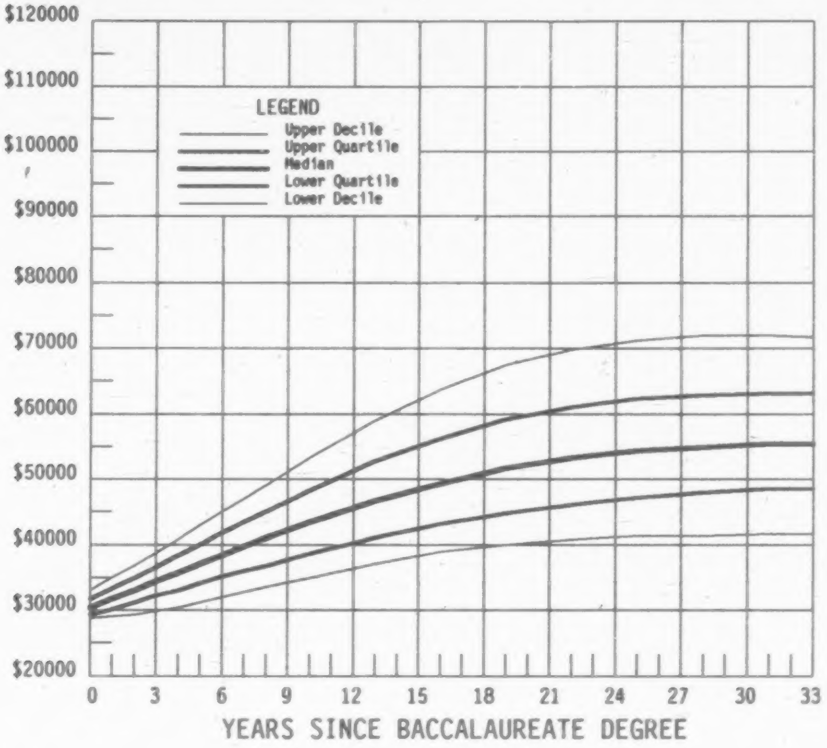
SALARY CURVES FOR ENGINEERS IN CHEMICALS, DRUGS & PLASTICS NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CHEMICALS, DRUGS & PLASTICS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34400	36550	38700	40850	43050	45200	47350	49450	51500	55350	60550	64900	68300	70900	72700	73950	74700	75350	64850
Upper Quartile	33100	35000	36900	38850	40750	42650	44500	46350	48100	51400	55800	59350	62200	64300	65750	66750	67400	67900	56250
Median	31850	33550	35200	36900	38550	40150	41750	43300	44750	47550	51200	54150	56450	58200	59400	60200	60750	61150	47450
Lower Quartile	30750	32250	33700	35150	36550	37900	39250	40500	41750	44050	46950	49350	51150	52500	53450	54100	54500	54850	38550
Lower Decile	29750	31050	32350	33600	34800	35950	37100	38150	39150	41050	43400	45300	46700	47750	48500	48950	49250	49450	33500
Mean	32000	33700	35400	37050	38750	40350	41950	43550	45050	47850	51550	54600	57000	58800	60100	60950	61500	61950	48550
Raw (Unsmoothed) Statistics																			
Upper Decile	34350	36800	37750	39950	43700	46400	47900	49950	52150	55200	59450	63250	67350	71000	73800	73700	75850	77900	64850
Upper Quartile	33450	34950	36050	37700	40600	43700	45200	46950	49050	51150	55000	58550	61800	64950	66600	66550	68500	68500	56250
Median	32350	33250	34800	36000	37900	40750	42400	43700	45800	47700	50100	54000	55750	59100	60200	60700	61400	61050	47450
Lower Quartile	31100	32100	33300	34600	36150	37900	39550	41350	42350	43900	46500	48800	51050	53350	54450	54450	55250	54300	38550
Lower Decile	30300	30650	32100	33100	34400	36000	37050	38700	39300	41050	43400	45200	46900	48550	49700	49050	49650	48250	33500
Mean	32350	33550	34750	36300	38600	40900	42450	44150	45800	47750	50800	54000	56550	59500	61050	60900	62200	62350	48550
Supporting Data																			
Total Number	661	570	383	472	504	445	408	588	582	1035	741	720	674	629	626	436	411	698	10570
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Less Than $22000	1	0	4	2	1	2	1	1	0	0	1	0	1	0	0	2	2	1	18

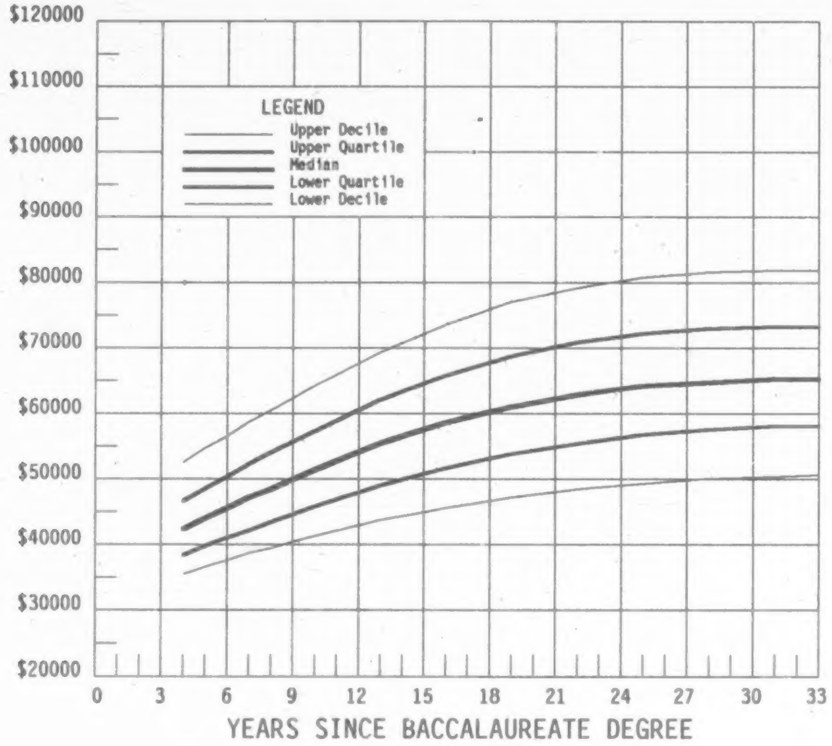
SALARY CURVES FOR ENGINEERS IN ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32950	34850	36750	38750	40800	42850	44950	47050	49150	53250	58950	63750	67450	69900	71300	71900	71900	71150	63150
Upper Quartile	31800	33400	35000	36650	38350	40050	41750	43400	45100	48300	52700	56350	59200	61150	62350	62950	63150	62900	53650
Median	30450	31750	33050	34400	35750	37050	38350	39650	40950	43350	46700	49450	51650	53250	54350	55000	55350	55550	43350
Lower Quartile	29250	30250	31200	32200	33150	34150	35100	36000	36900	38650	41050	43100	44800	46150	47200	47950	48500	49150	36000
Lower Decile	28700	28950	29350	29900	30500	31200	31950	32750	33500	35050	37150	38850	40000	40800	41250	41450	41550	41600	31650
Mean	30550	31900	33250	34600	35950	37300	38700	40000	41350	43850	47300	50250	52550	54300	55450	56200	56600	56850	45900
Raw (Unsmoothed) Statistics																			
Upper Decile	32600	34850	36600	38850	40700	43400	45050	46750	50050	53400	59500	62650	66100	69050	71800	71050	72850	71600	63150
Upper Quartile	31450	33000	34750	36700	38600	40500	42050	43500	46200	48400	52800	54950	57700	60900	62650	62600	63750	63350	53650
Median	30300	31300	32800	34300	35900	37350	38900	40150	42300	43350	45900	48000	51100	53400	54550	55050	55900	55600	43350
Lower Quartile	28900	29950	31000	32250	33200	34300	35500	36450	38100	38850	40350	41950	43950	46050	47050	49100	48800	49100	36000
Lower Decile	28050	28400	29450	30450	31050	31700	32350	32950	33700	34350	35050	37050	39550	40400	41650	42750	42650	42700	31650
Mean	30500	31600	33050	34550	36050	37550	38900	40150	42300	43950	47000	49100	51900	54350	55800	56350	57150	56800	45900
Supporting Data																			
Total Number	841	894	1274	1609	1647	1441	1392	1155	1185	2499	1762	1487	1735	1502	1463	1698	1782	2916	28282
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	6	11
Less Than $22000	2	3	4	2	1	3	2	1	3	2	0	1	0	2	0	0	1	1	28

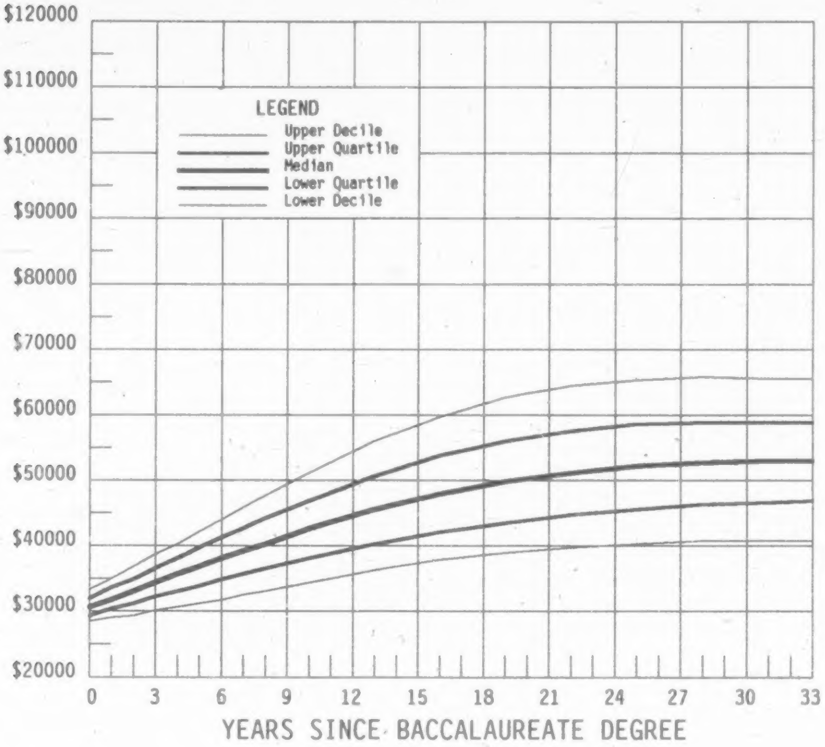
SALARY CURVES FOR ENGINEERS IN ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	52600	54650	56650	58650	60650	64400	69450	73700	76950	79300	80800	81600	82000	82000	78500
Upper Quartile	0	0	0	0	46700	48550	50400	52200	54000	57400	62050	65900	68850	70950	72300	73050	73350	73300	69600
Median	0	0	0	0	42400	44000	45550	47100	48600	51500	55400	58650	61150	63000	64200	64900	65250	65400	61000
Lower Quartile	0	0	0	0	38400	39650	40950	42200	43450	45800	49000	51700	53900	55550	56750	57550	58050	58500	52150
Lower Decile	0	0	0	0	35550	36600	37600	38550	39500	41300	43700	45700	47300	48550	49450	50050	50450	50900	45000
Mean	0	0	0	0	43550	45100	46600	48100	49550	52350	56100	59250	61800	63650	64900	65700	66150	66500	61550
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	60600	58800	56400	52800	59350	63950	69900	72600	78850	79100	81750	80400	83750	81100	78500
Upper Quartile	0	0	0	0	48700	50000	50900	50600	52850	57750	61850	64800	69600	70550	73400	72900	74700	72450	69600
Median	0	0	0	0	42100	45000	45050	45500	49350	51850	55350	58100	61300	62550	65050	64300	66100	65100	61000
Lower Quartile	0	0	0	0	35900	39500	40500	40350	45500	46450	50150	50650	52450	54600	58050	57950	58950	58050	52150
Lower Decile	0	0	0	0	33800	36650	38250	35800	42150	41450	44500	44600	46000	48700	50150	50050	52100	50150	45000
Mean	0	0	0	0	44350	46200	46550	45200	50300	52700	56250	58350	61850	63250	65900	65400	67200	65950	61550
Supporting Data																			
Total Number	5	2	10	14	27	36	49	58	100	294	313	295	369	383	346	412	459	699	3871
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	6	11
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2

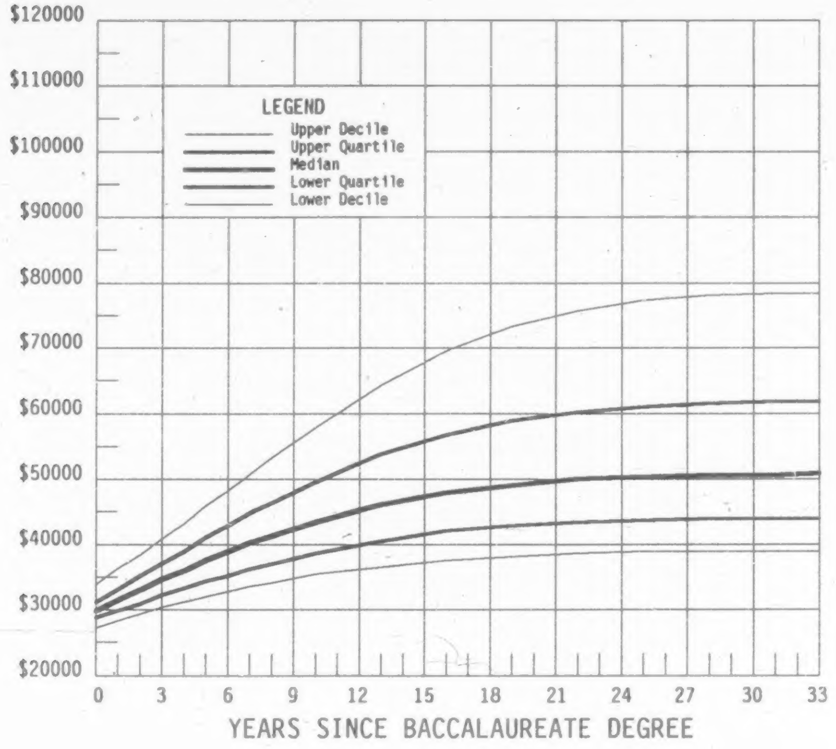
SALARY CURVES FOR ENGINEERS IN ELECTRIC MACHINERY/ELECTRONICS/COMPUTE NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC MACHINERY/ELECTRONICS/COMPUTERS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33250	35000	36750	38600	40400	42250	44100	45950	47750	51250	55950	59800	62600	64450	65400	65750	65700	64950	58050
Upper Quartile	32000	33500	35050	36550	38100	39650	41200	42700	44150	47000	50750	53800	56100	57650	58550	58950	59000	58650	50500
Median	30600	31850	33100	34350	35600	36800	38050	39200	40400	42600	45550	48000	49950	51300	52200	52750	53050	53200	41600
Lower Quartile	29400	30300	31250	32150	33050	33950	34850	35700	36550	38150	40300	42100	43600	44800	45700	46300	46750	47300	35050
Lower Decile	28550	28950	29450	30000	30600	31200	31850	32500	33150	34450	36300	37800	39000	39850	40400	40750	40900	41000	31250
Mean	30750	31950	33200	34450	35700	36950	38150	39350	40500	42750	45700	48200	50150	51550	52500	53100	53400	53550	43400
Raw (Unsmoothed) Statistics																			
Upper Decile	32450	34800	36500	38650	40600	43150	44450	46300	49000	51500	56000	57650	60350	63350	65650	65050	66100	66250	58050
Upper Quartile	31400	32950	34700	36650	38500	40300	41800	43300	45500	46900	50150	52300	54550	57000	58350	58650	59250	59700	50500
Median	30300	31300	32800	34250	35850	37250	38750	39950	41800	42650	44250	46050	49350	51400	52450	53150	53200	53550	41600
Lower Quartile	28900	29950	31000	32250	33200	34250	35350	36300	37600	38350	39250	41100	43000	44150	44950	47500	47100	47550	35050
Lower Decile	28050	28400	29450	30450	31000	31650	32250	32850	33400	34000	34400	36450	38600	39400	41050	41950	41800	41600	31250
Mean	30350	31550	33000	34500	35900	37350	38600	39850	41600	42750	45000	46850	49250	51250	52650	53450	53650	53900	43400
Supporting Data																			
Total Number	836	892	1264	1595	1620	1405	1343	1097	1085	2205	1449	1192	1366	1119	1117	1286	1323	2217	24411
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	2	3	4	2	1	3	2	1	3	2	0	1	0	1	0	0	0	1	26

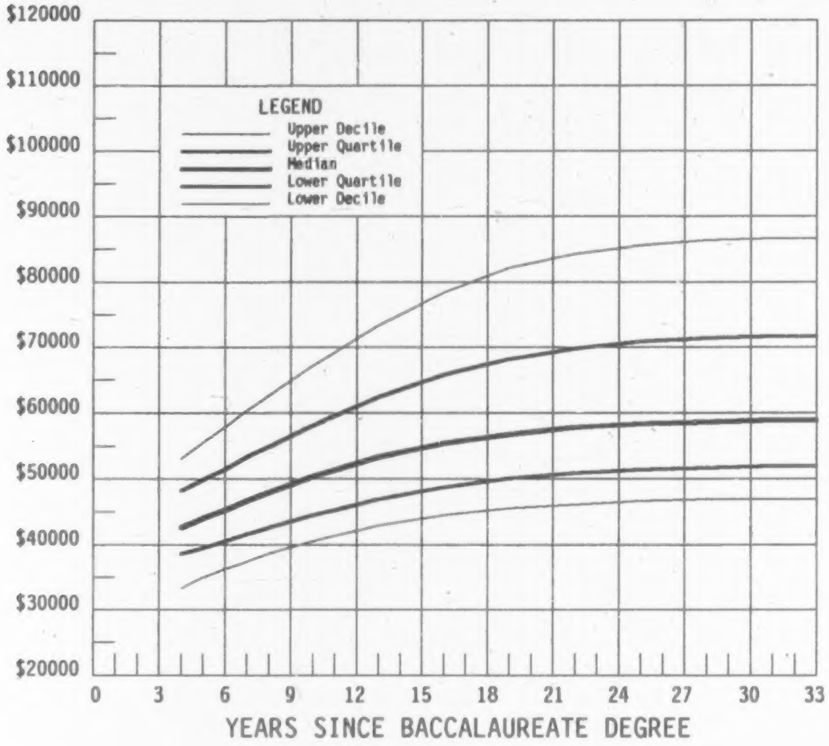
SALARY CURVES FOR ENGINEERS IN ELECTRICAL MACHINERY
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRICAL MACHINERY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33850	36150	38450	40850	43300	45800	48300	50800	53250	58000	64400	69500	73300	75750	77250	78050	78400	78550	63400
Upper Quartile	31100	33100	35100	37050	39050	41000	42900	44700	46450	49700	53800	56850	59000	60350	61150	61550	61750	61850	51000
Median	29900	31500	33100	34600	36100	37550	38900	40150	41350	43500	46100	47950	49200	50000	50450	50700	50800	50850	42400
Lower Quartile	28700	29900	31050	32200	33300	34300	35300	36250	37150	38700	40600	42000	42900	43500	43850	44000	44100	44150	35850
Lower Decile	27250	28300	29350	30300	31200	32000	32800	33500	34200	35350	36650	37600	38200	38600	38800	38900	38950	39000	31700
Mean	30900	32350	33850	35350	36850	38350	39800	41250	42650	45250	48650	51250	53100	54300	55000	55400	55550	55650	45550
Raw (Unsmoothed) Statistics																			
Upper Decile	32850	36950	38750	42850	42750	46400	47550	47350	51950	59000	65850	69000	73550	79600	79100	75850	78500	74100	63400
Upper Quartile	31550	32150	35250	37650	39050	40550	42450	43050	47300	50450	55450	55150	59250	60550	59950	59850	64650	60950	51000
Median	30600	30800	33000	34750	35900	36500	39050	39450	42600	44050	47200	47250	48700	51250	47800	51250	52200	50150	42400
Lower Quartile	29200	29350	30850	32550	33350	33500	34600	36350	38750	38750	41000	41450	43150	43600	42300	44850	44600	44100	35850
Lower Decile	27350	28300	29000	30350	31700	31300	32500	34350	34050	35800	36100	37150	37850	39100	38800	39150	38700	39750	31700
Mean	31300	31900	33950	35550	36700	37950	39150	40250	43450	46050	49650	50450	52650	55150	54150	54400	56300	55250	45550
Supporting Data																			
Total Number	90	85	105	134	138	126	114	127	121	281	231	207	170	128	128	96	109	116	2506
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	6
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

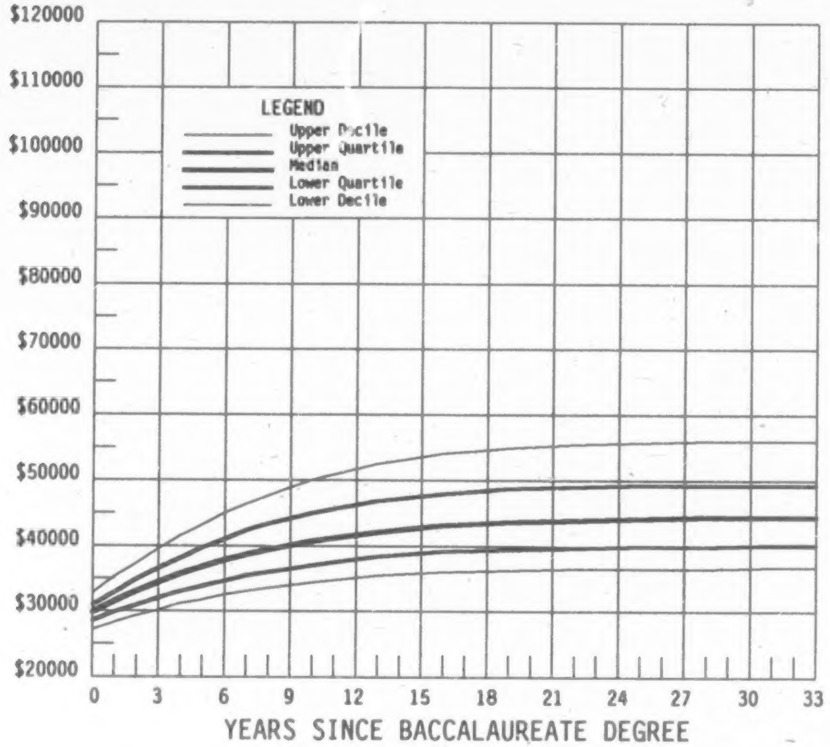
SALARY CURVES FOR ENGINEERS IN ELECTRICAL MACHINERY SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRICAL MACHINERY, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	53050	55400	57800	60200	62600	67200	73450	78450	82050	84350	85700	86400	86700	86800	77700
Upper Quartile	0	0	0	0	48300	49900	51550	53200	54850	58050	62400	65850	68350	70000	71000	71500	71750	71900	64700
Median	0	0	0	0	42550	44000	45350	46700	47950	50300	53200	55400	56900	57850	58450	58700	58850	58900	54000
Lower Quartile	0	0	0	0	38550	39550	40600	41600	42600	44500	46900	48800	50150	51000	51500	51750	51900	51950	47100
Lower Decile	0	0	0	0	33400	34850	36150	37400	38550	40550	42900	44500	45600	46250	46650	46850	46900	46950	42350
Mean	0	0	0	0	43050	44600	46200	47700	49250	52150	55950	59000	61150	62550	63400	63850	64050	64150	57600
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	57600	58200	53050	53200	58850	73000	73300	76250	80050	87150	95700	83150	86050	81350	77700
Upper Quartile	0	0	0	0	48500	53400	50800	50900	52050	59100	63850	64500	68100	71800	74400	66650	72250	70450	64700
Median	0	0	0	0	42300	46200	44700	43400	48000	51200	54850	53450	55150	55900	60250	58450	63250	58400	54000
Lower Quartile	0	0	0	0	38500	42600	38550	37200	44150	45350	48600	46150	48450	51600	52150	50400	55650	51750	47100
Lower Decile	0	0	0	0	34500	36350	33600	32550	41650	41150	44650	41900	44300	46250	46200	45350	50050	48650	42350
Mean	0	0	0	0	43900	46950	43950	43800	49300	53500	57450	57050	59000	62700	66000	60550	66800	65100	57600
Supporting Data																			
Total Number	3	2	8	10	13	16	17	24	40	103	106	86	100	69	55	45	59	51	806
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	6
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

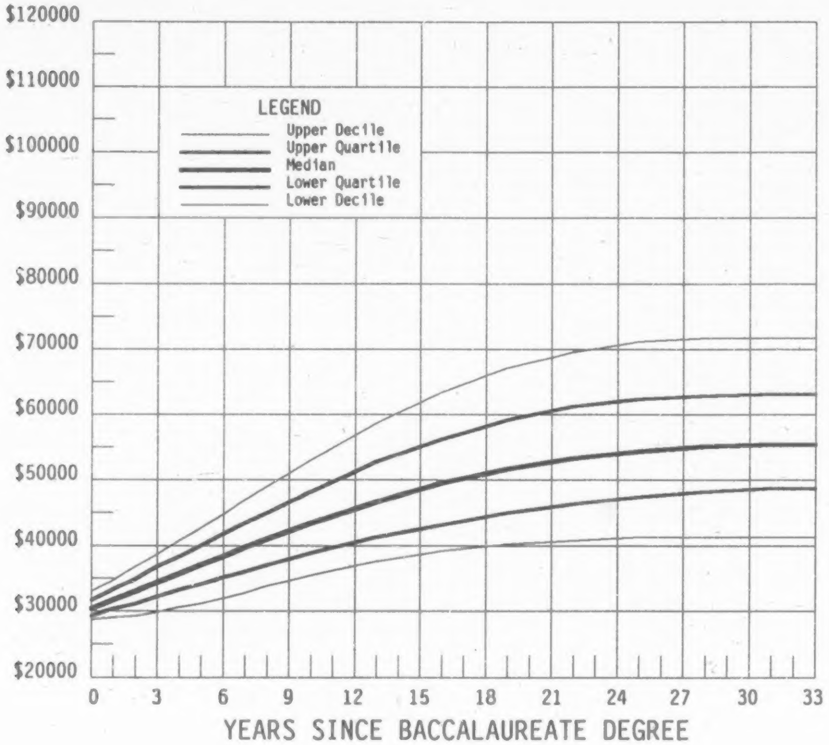
SALARY CURVES FOR ENGINEERS IN ELECTRICAL MACHINERY NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRICAL MACHINERY, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32800	35150	37400	39500	41500	43300	45000	46500	47850	50050	52450	54000	54950	55500	55800	55950	56050	56050	49500
Upper Quartile	30850	32900	34850	36650	38250	39750	41100	42300	43350	45100	46900	48050	48700	49050	49250	49350	49400	49400	43800
Median	29950	31550	33000	34350	35600	36750	37750	38650	39500	40800	42250	43200	43750	44100	44300	44400	44450	44450	38650
Lower Quartile	28650	29850	31000	32100	33050	33950	34750	35450	36100	37150	38300	39100	39550	39850	40000	40100	40150	40150	34000
Lower Decile	27100	28250	29300	30250	31100	31850	32550	33100	33650	34500	35400	35950	36300	36500	36600	36650	36700	36700	30750
Mean	30300	31850	33300	34650	35950	37150	38200	39200	40150	41700	43450	44650	45400	45900	46150	46300	46350	46400	39800
Raw (Unsmoothed) Statistics																			
Upper Decile	32000	36050	37250	40850	40950	44100	44700	44800	47300	49800	52750	55150	53000	58300	53500	56650	52100	61200	49500
Upper Quartile	31450	31950	34800	37050	38050	39100	41650	42050	44150	45250	47050	49600	46150	49050	47450	52300	48300	49600	43800
Median	30550	30750	32750	34550	35600	35900	38650	39050	40200	40700	41700	43850	43050	43550	42950	46950	44100	44800	38650
Lower Quartile	29100	29300	30700	32450	33150	33150	34350	36250	37000	37400	37850	39000	38750	39600	40250	40800	39250	41000	34000
Lower Decile	27300	28300	28850	30250	31450	31000	32350	34450	33100	35100	34350	36150	36250	37050	35950	37750	34150	38400	30750
Mean	30550	31500	33100	35000	35900	36650	38300	39400	40600	41750	43000	45700	43650	46450	45250	49000	44000	47400	39800
Supporting Data																			
Total Number	87	83	98	124	124	111	97	103	81	178	125	121	70	60	73	51	50	64	1700
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

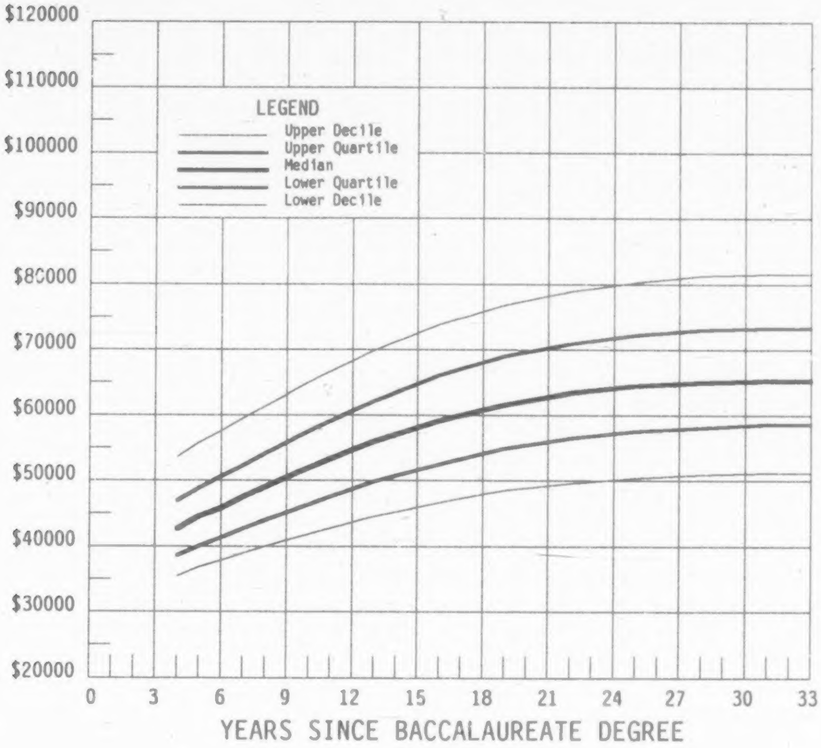
SALARY CURVES FOR ENGINEERS IN ELECTRONIC EQUIPMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRONIC EQUIPMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32950	34800	36750	38700	40750	42800	44850	46950	49050	53100	58750	63550	67250	69700	71150	71750	71800	71100	63100
Upper Quartile	31800	33400	35000	36700	38350	40050	41750	43450	45100	48350	52750	56400	59250	61200	62400	62950	63150	62850	53750
Median	30450	31800	33100	34450	35800	37100	38450	39750	41050	43500	46800	49600	51800	53400	54450	55100	55450	55600	43400
Lower Quartile	29300	30300	31300	32300	33250	34200	35200	36100	37050	38800	41200	43300	45000	46400	47450	48200	48750	49400	36050
Lower Decile	28800	28950	29350	29850	30550	31250	32100	32900	33750	35400	37550	39150	40250	40900	41250	41400	41450	41500	31700
Mean	30600	31900	33250	34650	36000	37350	38700	40050	41350	43900	47350	50300	52600	54300	55500	56200	56600	56850	45900
Raw (Unsmoothed) Statistics																			
Upper Decile	32600	34900	36500	38850	40650	43350	44950	46650	49800	53350	59350	62500	65750	68900	71750	71050	72500	71500	63100
Upper Quartile	31450	33000	34750	36750	38650	40500	42050	43500	46150	48500	52750	55150	57650	60900	62700	62600	63650	63350	53750
Median	30300	31350	32850	34350	35950	37450	38950	40300	42350	43450	45900	48400	51150	53550	54750	55100	55900	55700	43400
Lower Quartile	28950	30050	31050	32300	33300	34450	35600	36550	38250	39000	40400	42200	44000	46300	47450	49350	49000	49300	36050
Lower Decile	28100	28450	29550	30500	31100	31900	32400	33000	33850	34350	35100	37100	39600	40500	41800	42900	42900	42850	31700
Mean	30500	31650	33100	34600	36050	37600	38950	40150	42300	44050	46950	49250	51850	54300	55800	56450	57150	56800	45900
Supporting Data																			
Total Number	805	832	1208	1545	1577	1344	1316	1077	1107	2324	1624	1353	1611	1389	1366	1629	1674	2837	26618
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	5
Less Than $22000	2	3	4	1	1	2	2	1	3	2	0	1	0	2	0	0	1	1	26

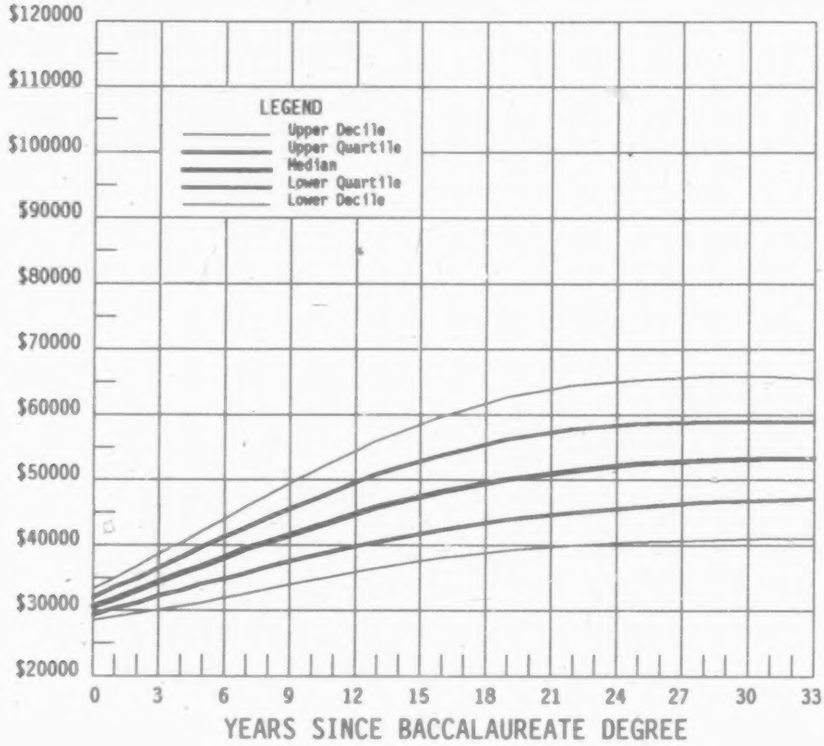
SALARY CURVES FOR ENGINEERS IN ELECTRONIC EQUIPMENT SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRONIC EQUIPMENT, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	53650	55650	57600	59550	61400	65000	69850	73800	76850	79050	80400	81200	81550	81550	78450
Upper Quartile	0	0	0	0	46900	48750	50600	52400	54200	57650	62250	66100	69000	71050	72350	73050	73300	73200	69900
Median	0	0	0	0	42800	44400	46000	47550	49100	52000	55950	59200	61700	63450	64550	65200	65450	65450	61600
Lower Quartile	0	0	0	0	38650	40000	41350	42700	44000	46500	49850	52650	54850	56450	57550	58200	58600	58800	53100
Lower Decile	0	0	0	0	35550	36700	37800	38900	39950	41950	44600	46800	48450	49650	50450	50950	51200	51350	45750
Mean	0	0	0	0	43650	45250	46800	48350	49850	52700	56550	59750	62200	64000	65150	65800	66150	66250	61950
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	58400	56000	60000	53450	59850	66100	69450	73100	78500	78000	81100	80100	83450	80900	78450
Upper Quartile	0	0	0	0	48000	49700	51500	51150	52750	58300	61950	64850	69750	70400	73550	73050	74500	72450	69900
Median	0	0	0	0	41750	45200	45800	47200	49450	52350	55700	58750	62100	62900	65300	64500	66300	65250	61600
Lower Quartile	0	0	0	0	36000	39100	41000	41600	46050	47250	50650	52000	53600	55250	58800	58400	59300	58550	53100
Lower Decile	0	0	0	0	33600	36500	38750	38350	42550	41750	44450	46500	47200	50150	51050	50650	52900	50600	45750
Mean	0	0	0	0	43200	45500	47350	46300	50500	53300	56350	59050	62400	63300	65800	65750	67100	65850	61950
Supporting Data																			
Total Number	5	2	8	12	24	30	40	47	82	254	267	249	309	340	305	385	416	664	3439
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	5
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2

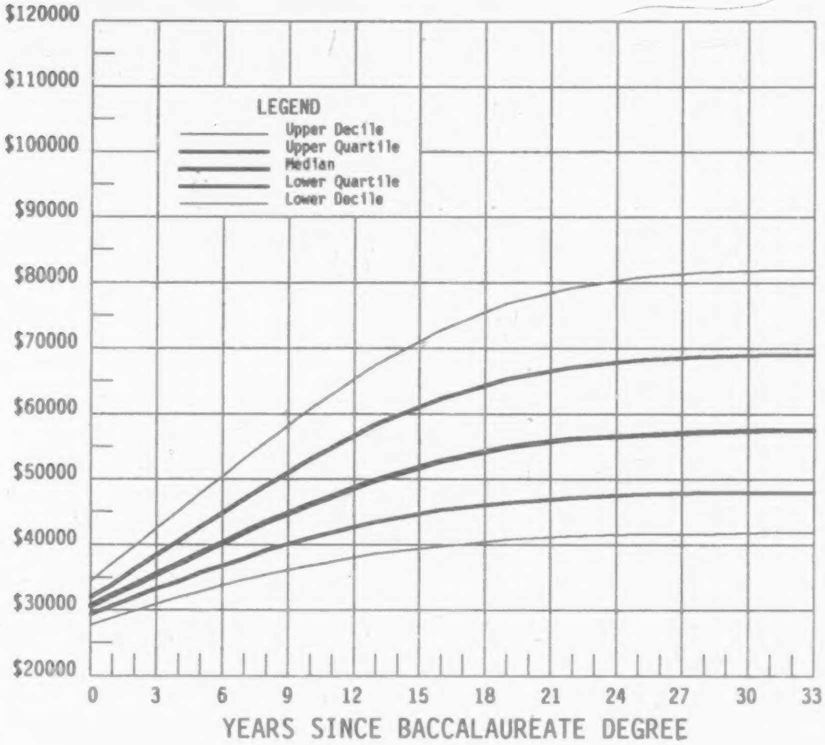
SALARY CURVES FOR ENGINEERS IN ELECTRONIC EQUIPMENT NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRONIC EQUIPMENT, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33250	34950	36750	38550	40400	42250	44100	45950	47750	51250	55950	59800	62650	64500	65450	65800	65750	65000	58200
Upper Quartile	32000	33500	35050	36600	38150	39700	41250	42750	44250	47050	50850	53950	56200	57750	58600	59000	59050	58700	50750
Median	30600	31850	33150	34400	35650	36900	38150	39350	40550	42800	45800	48250	50200	51550	52450	52950	53200	53300	41750
Lower Quartile	29400	30350	31300	32250	33150	34100	35000	35850	36700	38300	40500	42350	43900	45100	45950	46600	47050	47550	35100
Lower Decile	28650	29000	29500	30000	30600	31250	31950	32600	33300	34650	36550	38100	39250	40050	40550	40800	40950	41000	31300
Mean	30750	32000	33250	34500	35750	37000	38250	39450	40600	42850	45850	48350	50300	51700	52650	53250	53550	53700	43550
Raw (Unsmoothed) Statistics																			
Upper Decile	32500	34800	36450	38650	40600	43100	44400	46200	48900	51550	56050	57850	60400	63400	65900	65050	65950	66300	58200
Upper Quartile	31400	33000	34700	36700	38550	40350	41850	43300	45500	47000	50200	52550	54650	57050	58550	58750	59250	59700	50750
Median	30300	31350	32850	34300	35900	37400	38850	40100	41900	42800	44450	46450	49600	51600	52750	53250	53350	53650	41750
Lower Quartile	28950	30050	31050	32300	33250	34400	35500	36450	37900	38550	39350	41400	43100	44400	45450	47750	47450	47750	35100
Lower Decile	28100	28450	29550	30500	31050	31800	32350	32900	33600	34000	34550	36450	38700	39550	41250	42150	42100	41750	31300
Mean	30400	31600	33000	34550	35950	37450	38700	39900	41650	42900	45100	47050	49350	51400	52950	53600	53850	54000	43550
Supporting Data																			
Total Number	830	830	1200	1533	1553	1314	1276	1030	1025	2070	1357	1104	1302	1049	1061	1244	1258	2173	23179
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	2	3	4	1	1	2	2	1	3	2	0	1	0	1	0	0	0	1	24

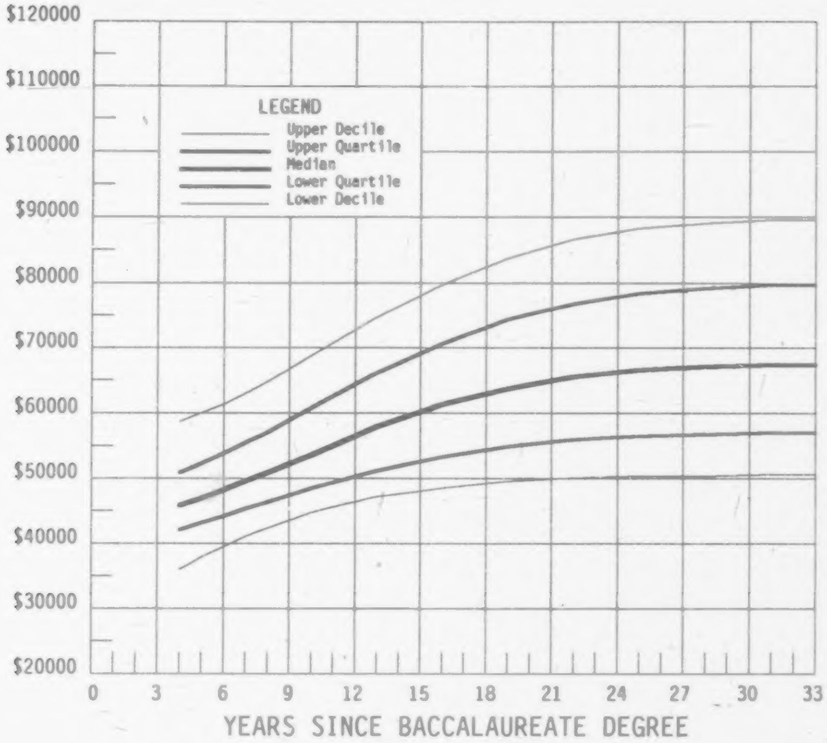
SALARY CURVES FOR ENGINEERS IN COMPUTERS
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: COMPUTERS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34500	37050	39650	42300	45000	47700	50450	53150	55800	60850	67550	72850	76700	79200	80700	81500	81900	82050	67500
Upper Quartile	31900	34000	36150	38350	40550	42750	44900	47050	49150	53100	58300	62350	65250	67150	68250	68850	69100	69250	54650
Median	30550	32150	33750	35400	37050	38650	40250	41850	43350	46250	49950	52800	54850	56150	56900	57350	57500	57600	44500
Lower Quartile	29250	30600	31900	33200	34450	35700	36850	38000	39100	41050	43500	45300	46500	47300	47750	48000	48100	48150	37300
Lower Decile	27850	28900	29950	31000	31950	32900	33800	34650	35450	36850	38600	39850	40700	41250	41550	41700	41800	41800	32650
Mean	31650	33200	34800	36400	38050	39750	41400	43000	44600	47650	51650	54800	57050	58500	59350	59850	60050	60150	47550
Raw (Unsmoothed) Statistics																			
Upper Decile	33500	37800	40000	43000	45000	48350	49150	51650	56350	60850	67000	72800	79600	84900	74750	80300	81850	80300	67500
Upper Quartile	31550	34400	36250	37900	40750	43750	44650	46050	49700	52700	58250	61350	68800	67200	68450	66750	70350	66800	54650
Median	30600	31650	34000	35500	37550	38400	40100	41600	44500	45800	50250	50100	56700	56750	56950	57500	61750	54550	44500
Lower Quartile	29400	29700	32000	33150	35450	35900	36750	38600	39100	40400	43200	44450	46000	48600	45750	50200	51800	47350	37300
Lower Decile	28350	28000	30050	30650	33400	32950	33250	34550	34800	36850	38600	40250	41350	42250	40000	41700	42900	39600	32650
Mean	31850	32650	35150	36000	38750	40050	40950	42400	45100	47650	51650	53800	58250	59300	57600	59250	62300	59200	47550
Supporting Data																			
Total Number	72	86	108	134	145	149	150	138	159	335	255	198	165	134	101	82	89	77	2576
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Less Than $22000	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2

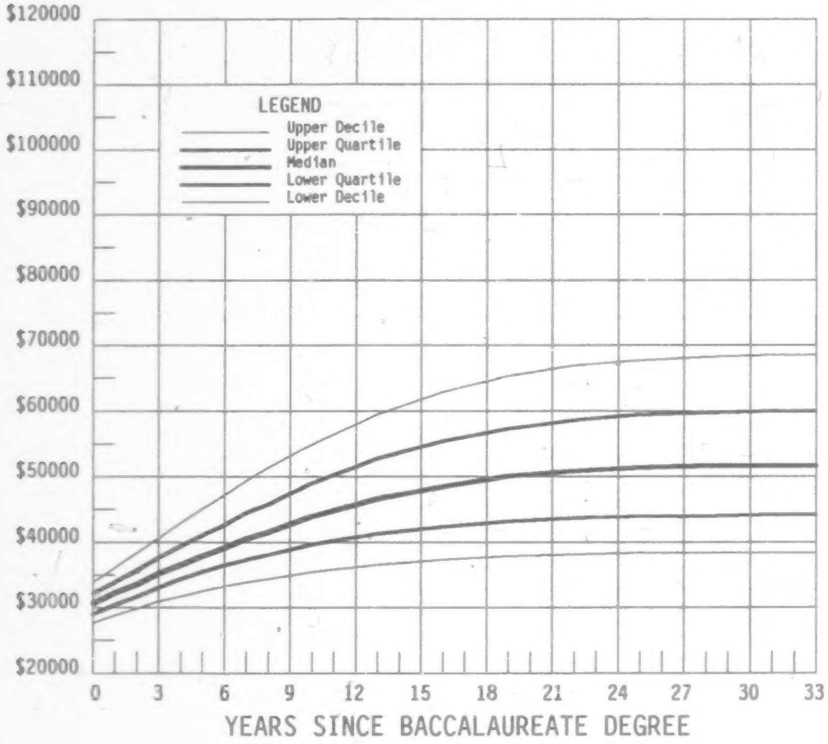
SALARY CURVES FOR ENGINEERS IN COMPUTERS SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: COMPUTERS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	58650	59900	61400	63050	64900	68800	74650	79800	83850	86600	88300	89200	89650	89850	80250
Upper Quartile	0	0	0	0	51000	52300	53750	55350	57100	60700	66050	70750	74400	76900	78450	79250	79650	79800	69550
Median	0	0	0	0	45900	46950	48200	49500	50900	53700	57800	61250	63850	65650	66700	67300	67550	67650	57950
Lower Quartile	0	0	0	0	42250	43300	44350	45400	46500	48500	51250	53400	54900	55900	56500	56800	56950	57050	50000
Lower Decile	0	0	0	0	36000	37850	39550	41050	42400	44700	47100	48600	49500	50050	50350	50500	50550	50600	45250
Mean	0	0	0	0	47400	48500	49750	51050	52450	55300	59400	62900	65550	67350	68400	69000	69250	69400	60650
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	62650	65100	55200	54100	61950	73850	73850	79700	84600	89000	82950	84500	89550	93250	80250
Upper Quartile	0	0	0	0	50300	57550	51900	51950	54900	62500	65250	71400	75850	80700	73550	73550	80500	80450	69550
Median	0	0	0	0	44550	48950	48000	49550	50300	54400	56700	61750	65050	64050	68150	64250	69700	67450	57950
Lower Quartile	0	0	0	0	40300	44900	44050	45350	47350	49000	51150	50950	54450	54800	60200	52850	60650	60350	50000
Lower Decile	0	0	0	0	35450	37200	39150	41250	44400	44650	47350	47250	46750	50300	53600	50000	54500	51100	45250
Mean	0	0	0	0	47750	50650	47500	48350	52000	56750	59000	62550	65500	67350	67300	65450	71250	72700	60650
Supporting Data																			
Total Number	3	2	5	8	15	17	17	19	42	99	111	66	84	54	36	29	35	27	668
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

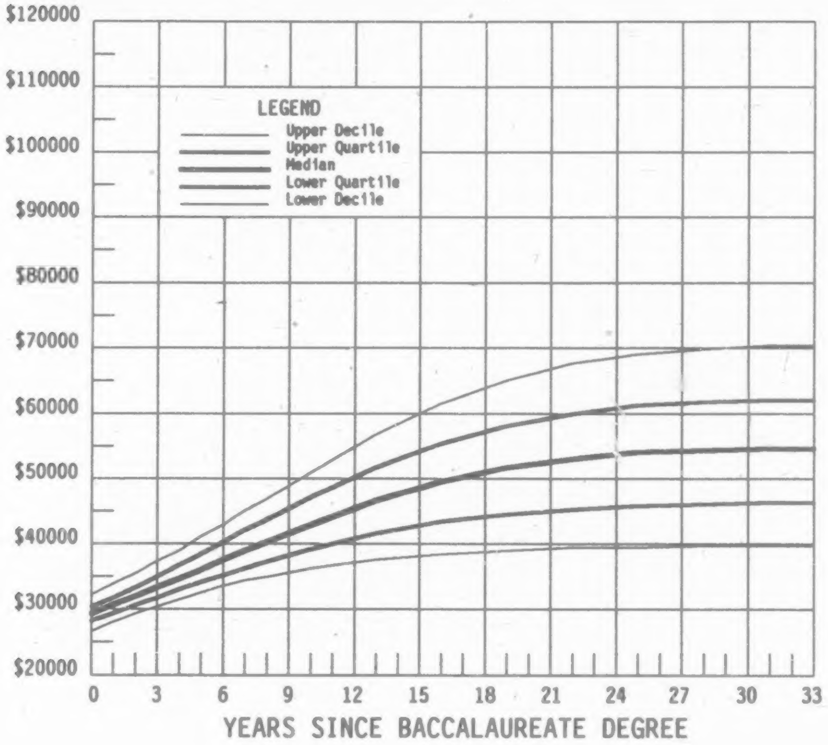
SALARY CURVES FOR ENGINEERS IN COMPUTERS
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: COMPUTERS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33800	36050	38350	40650	42900	45100	47250	49350	51350	55000	59600	63000	65400	66900	67800	68250	68500	68600	57350
Upper Quartile	32200	34000	35800	37550	39350	41100	42800	44450	46000	48950	52700	55500	57450	58750	59500	59850	60050	60150	47700
Median	30750	32200	33650	35100	36500	37900	39200	40500	41700	43900	46600	48650	50050	50900	51400	51700	51800	51850	40850
Lower Quartile	29150	30500	31850	33100	34300	35350	36400	37300	38150	39650	41300	42450	43200	43650	43950	44050	44150	44150	35700
Lower Decile	27850	28900	29950	30850	31750	32550	33250	33900	34500	35500	36650	37400	37900	38200	38350	38450	38500	38500	31650
Mean	31250	32700	34150	35600	37050	38450	39800	41150	42400	44700	47550	49750	51200	52200	52750	53050	53150	53200	43000
Raw (Unsmoothed) Statistics																			
Upper Decile	32150	37150	39100	40850	43350	45950	47000	48850	51750	53300	57950	63150	66550	68100	69550	71300	70800	67000	57350
Upper Quartile	31450	34150	35950	37600	40000	41600	43450	44450	46600	47350	51200	53350	59550	61650	59200	61850	65950	57950	47700
Median	30550	31600	33850	35350	37250	37850	39550	40800	42050	43350	44850	46900	49350	53350	51950	55650	56150	49450	40850
Lower Quartile	29300	29650	31900	33100	35300	35600	36450	38300	37500	39050	39850	42750	42200	45950	42350	46950	46250	43100	35700
Lower Decile	28350	27900	30000	30500	33250	32600	33050	34250	33200	35850	35750	38100	37550	38050	36250	39700	41700	38000	31650
Mean	30950	32300	34500	35550	37750	38650	40150	41400	42650	43800	46000	49500	50750	53900	52150	55850	56400	51950	43000
Supporting Data																			
Total Number	70	84	103	126	130	132	133	118	117	236	144	133	81	81	65	53	54	50	1908
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2

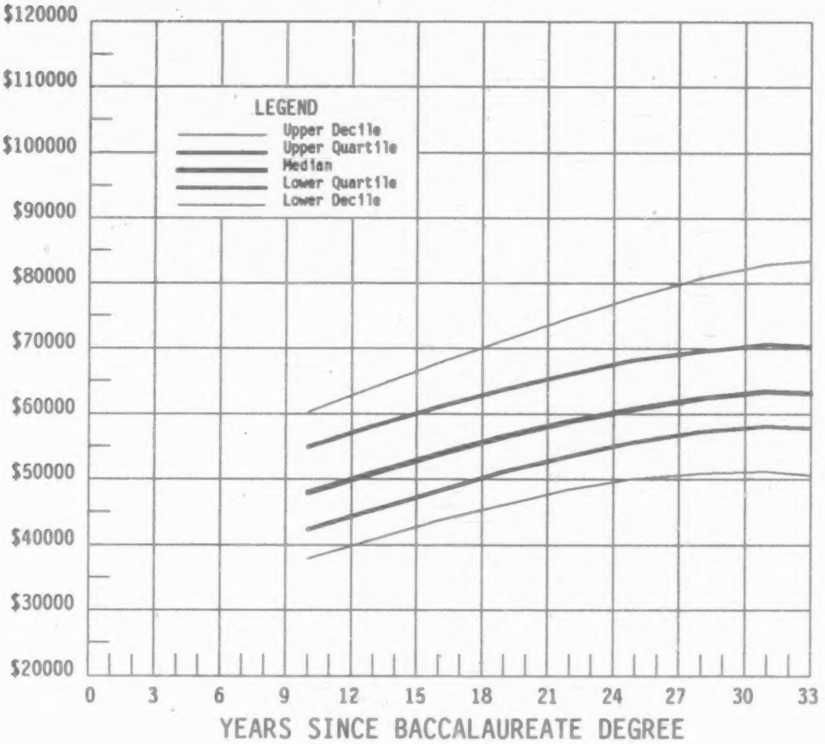
SALARY CURVES FOR ENGINEERS IN FABRICATED METAL PRODUCTS
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: FABRICATED METAL PRODUCTS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32400	33900	35500	37250	39050	41000	42950	44950	47000	51050	56750	61600	65200	67700	69200	70000	70350	70550	60200
Upper Quartile	30350	31850	33450	35050	36750	38500	40250	42000	43750	47150	51750	55500	58250	60100	61200	61750	62050	62150	51100
Median	29400	30600	31900	33250	34650	36050	37500	38950	40350	43050	46700	49650	51750	53150	54000	54450	54650	54750	41700
Lower Quartile	28200	29400	30600	31750	32950	34100	35200	36300	37300	39200	41600	43400	44650	45450	45900	46150	46300	46350	35000
Lower Decile	26700	28050	29350	30500	31600	32600	33500	34300	35050	36250	37600	38500	39050	39400	39600	39700	39700	39750	30900
Mean	29600	30850	32200	33600	35050	36500	37950	39400	40850	43650	47350	50300	52450	53850	54700	55150	55350	55450	44200
Raw (Unsmoothed) Statistics																			
Upper Decile	32400	33100	35650	37750	39550	42500	43900	43950	44750	52050	55350	60100	65650	68900	67750	70850	70800	73600	60200
Upper Quartile	30250	31550	33350	35500	37250	39250	41250	40850	42700	47550	50600	54750	58250	58900	61250	63550	62000	65450	51100
Median	29150	30550	31950	33800	35150	36000	37250	38850	40400	43200	45700	48750	51400	53100	54100	55600	54350	57500	41700
Lower Quartile	28200	29250	30500	32200	33000	34000	34550	36250	38350	39100	41150	43050	43700	47700	45250	45400	47400	46700	35000
Lower Decile	26850	28300	28900	30350	31550	32200	32750	34550	36350	36600	36900	37950	38700	43200	38300	37800	39950	39400	30900
Mean	29300	30900	32150	33900	35800	36500	38050	39500	40400	43800	46300	49100	52150	54650	53300	55000	58000	58250	44200
Supporting Data																			
Total Number	74	62	65	68	79	60	64	61	92	168	132	109	123	89	74	47	46	78	1491
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

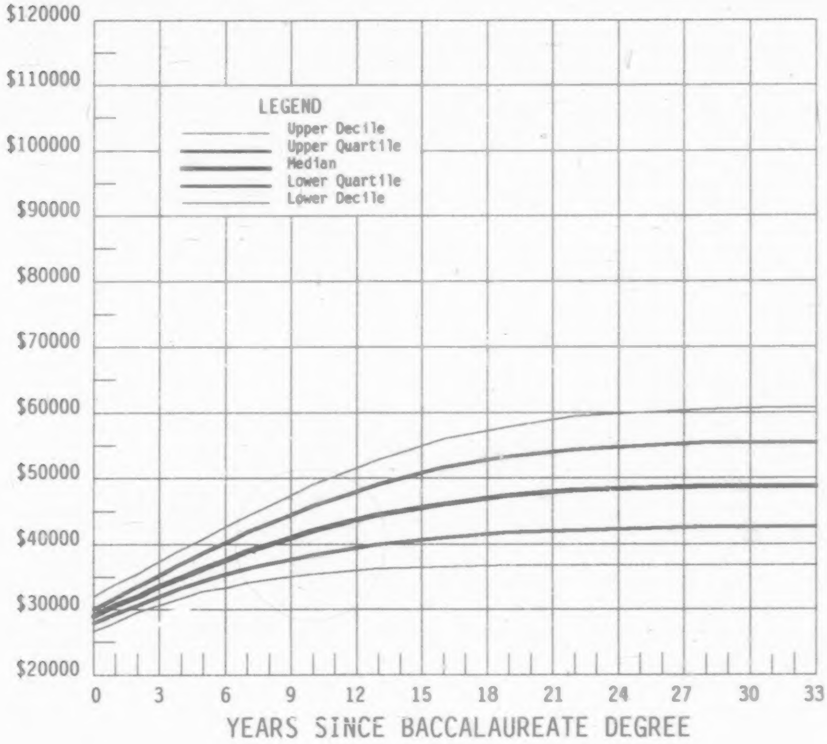
SALARY CURVES FOR ENGINEERS IN FABRICATED METAL PRODUCTS
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: FABRICATED METAL PRODUCTS, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	0	0	60200	63900	67650	71300	74800	77950	80700	82900	85450	71350
Upper Quartile	0	0	0	0	0	0	0	0	0	54950	58050	61050	63800	66250	68250	69700	70600	69650	64800
Median	0	0	0	0	0	0	0	0	0	48100	51000	53850	56500	58900	60900	62450	63400	62900	56800
Lower Quartile	0	0	0	0	0	0	0	0	0	42300	45350	48300	51100	53650	55750	57300	58200	57100	49550
Lower Decile	0	0	0	0	0	0	0	0	0	37950	40850	43650	46200	48400	50050	51050	51300	48400	42300
Mean	0	0	0	0	0	0	0	0	0	48700	51950	55150	58200	61000	63400	65250	66450	66150	58200
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	0	0	59750	66800	65200	71050	74000	73350	73600	110000	82500	71350
Upper Quartile	0	0	0	0	0	0	0	0	0	57350	55750	59600	65600	68000	67000	70000	69000	69850	64800
Median	0	0	0	0	0	0	0	0	0	48500	49700	54500	58250	58000	61000	63000	61000	63400	56800
Lower Quartile	0	0	0	0	0	0	0	0	0	41000	45250	50750	51650	53000	54750	58000	55600	57800	49550
Lower Decile	0	0	0	0	0	0	0	0	0	36950	41900	43100	47400	47000	51500	46400	53150	48500	42300
Mean	0	0	0	0	0	0	0	0	0	48750	51600	54800	60050	60700	61400	62950	69200	66050	58200
Supporting Data																			
Total Number	0	1	0	1	3	3	5	7	4	24	39	34	47	40	30	16	22	45	321
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

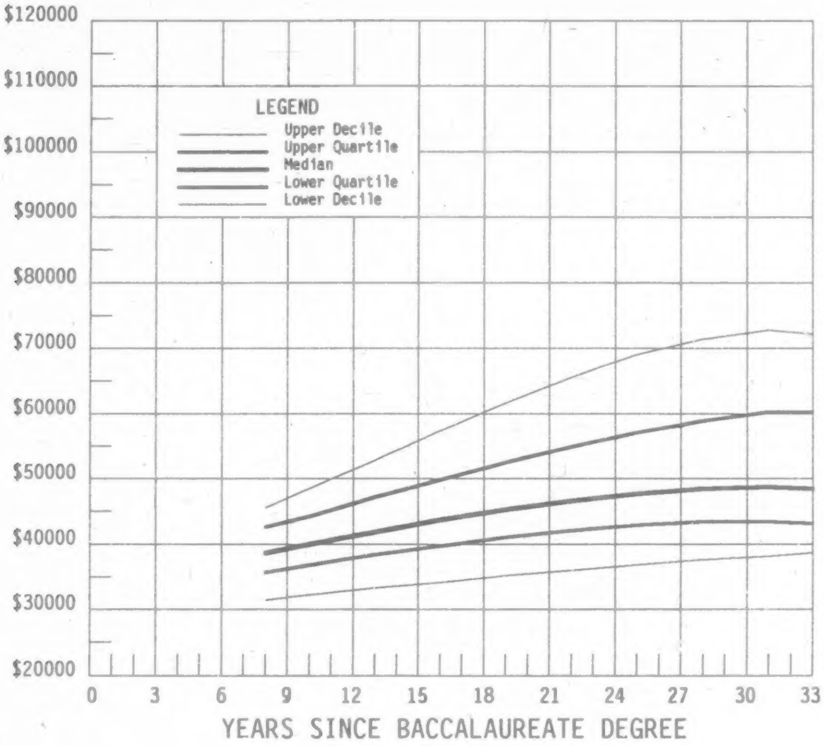
SALARY CURVES FOR ENGINEERS IN FABRICATED METAL PRODUCTS
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: FABRICATED METAL PRODUCTS, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32000	33750	35550	37350	39100	40900	42650	44300	45950	49000	52900	55900	57950	59350	60100	60550	60750	60800	52550
Upper Quartile	30100	31850	33550	35300	37000	38650	40250	41750	43200	45900	49200	51650	53350	54400	55050	55350	55500	55600	45750
Median	29050	30550	32050	33550	34950	36300	37600	38800	39950	42000	44450	46200	47400	48150	48550	48800	48900	48950	39200
Lower Quartile	27900	29350	30700	32000	33200	34300	35350	36250	37100	38500	40100	41150	41850	42250	42500	42600	42650	42700	33550
Lower Decile	26550	28100	29550	30750	31800	32700	33450	34100	34650	35400	36150	36550	36750	36850	36850	36900	36900	36900	30200
Mean	29200	30750	32300	33800	35200	36600	37900	39100	40250	42250	44650	46400	47550	48300	48700	48900	49000	49050	40350
Raw (Unsmoothed) Statistics																			
Upper Decile	32400	32750	35650	37750	38600	42300	43450	43300	44600	49950	52250	56400	57900	58100	60600	67600	55750	59600	52550
Upper Quartile	30250	31500	33350	35500	37050	39200	40800	40500	42600	46650	48650	51600	53300	54050	55400	59000	53600	54300	45750
Median	29150	30500	31950	33750	34950	35800	36900	38700	40300	42700	43900	46050	47400	49850	47750	50500	47750	46700	39200
Lower Quartile	28200	29200	30500	32150	32900	33850	34500	35900	38350	39000	39750	41850	41000	45600	41000	43250	41000	40550	33550
Lower Decile	26850	28300	28900	30350	31450	32150	32700	34450	36350	36550	35650	36250	35800	39350	33400	36750	38300	36600	30200
Mean	29300	30700	32150	33850	35150	36400	37650	38800	40300	43000	44050	46550	47200	49750	47850	50900	47700	47550	40350
Supporting Data																			
Total Number	74	61	65	67	76	57	59	54	88	144	93	75	76	49	44	31	24	33	1170
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

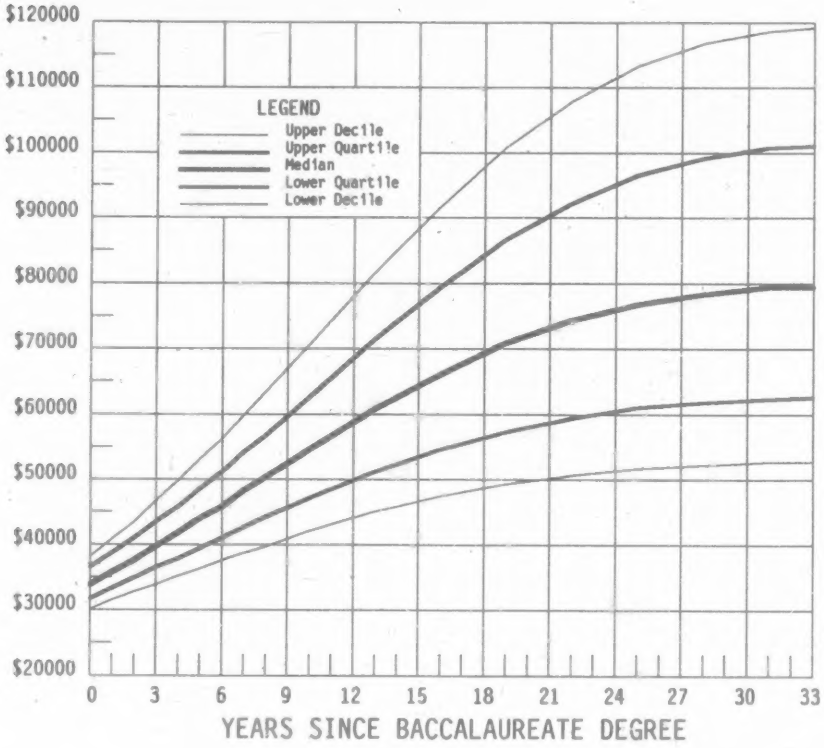
SALARY CURVES FOR ENGINEERS IN NON-ELECTRICAL MACHINERY
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: NON-ELECTRICAL MACHINERY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	0	45700	48500	52900	57300	61650	65600	69000	71500	72900	70550	57200
Upper Quartile	0	0	0	0	0	0	0	0	42550	44350	47150	49850	52500	54950	57100	58900	60200	61000	47600
Median	0	0	0	0	0	0	0	0	38700	40050	41950	43750	45350	46700	47750	48450	48700	47500	40600
Lower Quartile	0	0	0	0	0	0	0	0	35650	36800	38350	39800	41100	42100	42900	43350	43450	42250	35100
Lower Decile	0	0	0	0	0	0	0	0	31550	32200	33250	34200	35150	36050	36850	37600	38250	39500	29500
Mean	0	0	0	0	0	0	0	0	38750	40400	42850	45200	47400	49400	51050	52350	53150	52750	42550
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	0	46000	51200	50000	56400	60000	69600	72000	0	0	70000	57200
Upper Quartile	0	0	0	0	0	0	0	0	44500	42800	45500	50750	56000	58000	48500	0	0	61500	47600
Median	0	0	0	0	0	0	0	0	39500	40400	40550	44500	43250	53000	44000	0	0	47500	40600
Lower Quartile	0	0	0	0	0	0	0	0	34500	38000	38450	40250	38000	47600	40250	0	0	42250	35100
Lower Decile	0	0	0	0	0	0	0	0	30000	35600	35000	27900	36500	39800	38000	0	0	39100	29500
Mean	0	0	0	0	0	0	0	0	38800	41250	41900	44700	46750	53200	48450	0	0	52700	42550
Supporting Data																			
Total Number	8	7	7	4	8	9	9	7	10	16	20	19	20	16	10	7	7	25	209
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

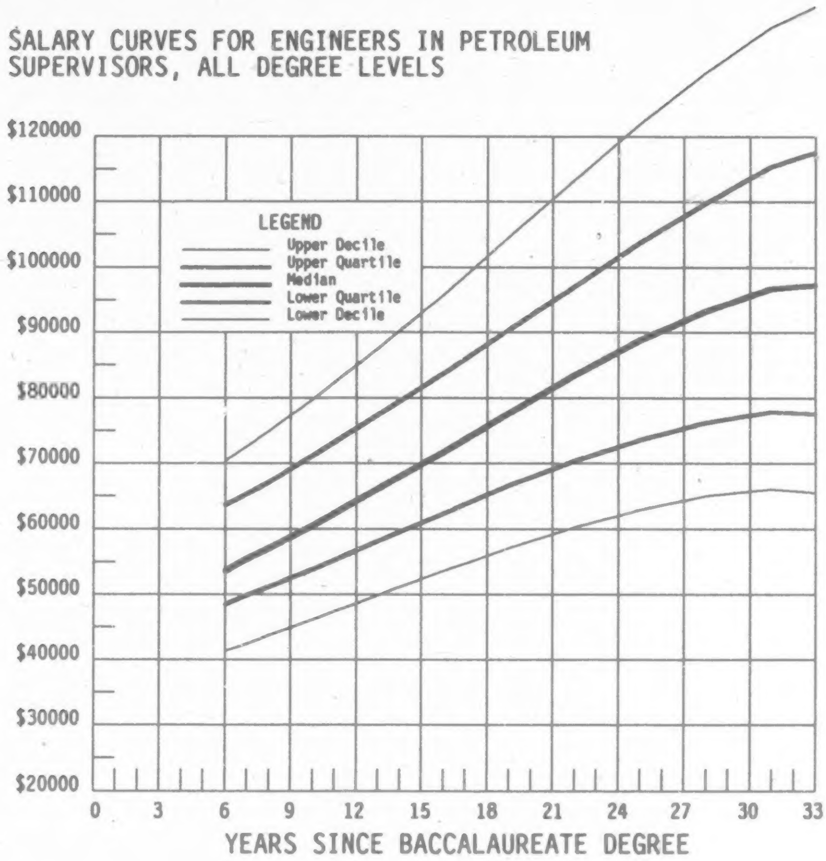
SALARY CURVES FOR ENGINEERS IN PETROLEUM
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: PETROLEUM

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38050	40750	43600	46600	49750	53000	56350	59850	63400	70600	81550	91850	100850	108100	113350	116750	118750	120100	90250
Upper Quartile	36550	38750	41100	43500	46000	48650	51300	54100	56900	62700	71400	79550	86700	92400	96550	99250	100800	101900	72700
Median	33800	35700	37700	39700	41800	43900	46000	48200	50350	54650	60800	66250	70850	74350	76850	78450	79350	79950	53450
Lower Quartile	31850	33350	34900	36450	38000	39550	41100	42650	44150	47100	51150	54650	57450	59550	61000	61900	62450	62800	43850
Lower Decile	30250	31450	32700	33900	35150	36350	37550	38700	39850	42050	45000	47450	49350	50800	51750	52400	52700	52950	37250
Mean	34050	36000	38000	40050	42200	44350	46550	48800	51100	55650	62250	68200	73250	77200	80000	81800	82800	83550	60200
Raw (Unsmoothed) Statistics																			
Upper Decile	38900	42150	41450	47400	51650	51750	53550	57350	62950	76750	83100	86850	95050	99250	109500	118450	113850	149800	90250
Upper Quartile	36900	39000	39950	43400	48200	48900	51350	52700	54800	63000	76250	76950	82850	90950	92800	101750	92000	118650	72700
Median	33900	34950	37950	37600	43150	45100	47050	49050	50100	53750	60800	64950	70000	74150	74150	85150	74350	87400	53450
Lower Quartile	32150	32200	35200	35100	37600	39350	43050	45000	45900	47000	49600	52000	55050	60600	62200	70600	58350	69000	43850
Lower Decile	30650	30200	33000	33000	33650	36700	39350	40950	41750	42250	42950	44550	49150	51200	53250	56300	51050	57000	37250
Mean	34550	35650	37500	39100	42900	44400	47350	48950	52050	55800	63100	65500	70950	75650	78500	86900	77750	94900	60200
Supporting Data																			
Total Number	133	123	234	161	204	248	218	300	235	705	552	498	428	252	204	180	196	257	5126
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7	7	7	51	77
Less Than $22000	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	1	3

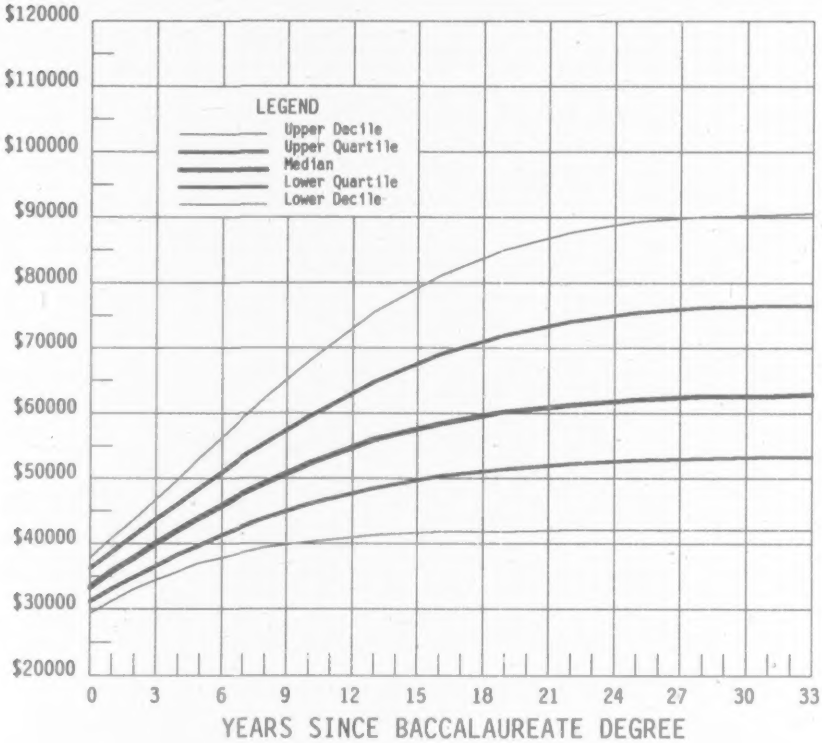
SALARY CURVES FOR ENGINEERS IN PETROLEUM SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: PETROLEUM, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	70350	72600	74900	79750	87500	95750	104450	113300	121950	129950	136800	145350	115250
Upper Quartile	0	0	0	0	0	0	63650	65450	67300	71150	77250	83700	90350	97100	103750	109950	115400	123850	93850
Median	0	0	0	0	0	0	53700	55350	57050	60550	66100	71850	77700	83450	88750	93350	96800	98850	76500
Lower Quartile	0	0	0	0	0	0	48500	49850	51200	53950	58200	62450	66600	70400	73650	76200	77800	76900	62600
Lower Decile	0	0	0	0	0	0	41300	42500	43700	46100	49850	53550	57100	60350	63050	65000	66050	64150	51750
Mean	0	0	0	0	0	0	55750	57400	59100	62600	68150	73950	79800	85550	90900	95550	99200	101950	80700
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	52650	58200	83400	76900	97750	97200	108500	108900	110600	121200	120850	157350	115250
Upper Quartile	0	0	0	0	0	0	50300	53850	81000	68850	79600	87350	93450	95550	99050	108400	103100	130850	93850
Median	0	0	0	0	0	0	47450	50000	55800	59800	70750	71650	79850	85700	84900	92500	83200	105100	76500
Lower Quartile	0	0	0	0	0	0	44650	47800	50250	53000	62150	61600	69100	65700	71600	79600	74150	78150	62600
Lower Decile	0	0	0	0	0	0	42200	45100	45600	43550	51200	53750	60150	55000	63100	71500	61450	64550	51750
Mean	0	0	0	0	0	0	48650	50950	62000	60550	72850	75200	82100	82650	89100	94850	89150	106800	80700
Supporting Data																			
Total Number	0	2	1	2	1	3	14	31	57	187	212	184	190	147	122	134	114	180	1579
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7	7	7	51	77
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

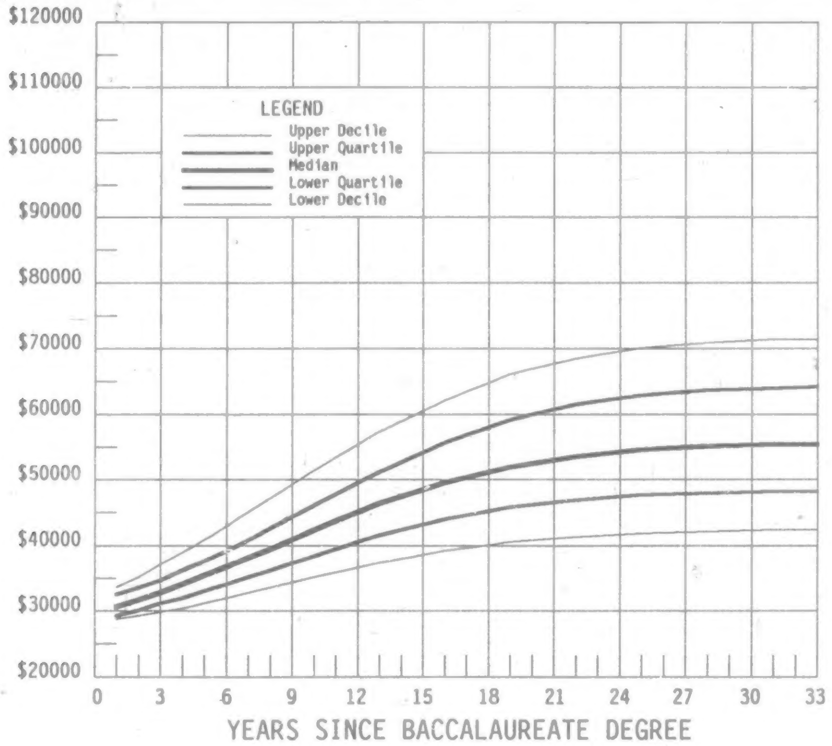
SALARY CURVES FOR ENGINEERS IN PETROLEUM NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: PETROLEUM, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37750	40700	43700	46800	49950	53050	56200	59250	62300	67950	75350	81100	85200	87800	89350	90100	90500	90650	74150
Upper Quartile	36250	38750	41200	43700	46150	48600	50950	53250	55500	59600	64900	69000	72050	74100	75400	76150	76550	76800	57350
Median	33450	35650	37850	40000	42050	44050	45950	47750	49400	52400	55900	58450	60200	61400	62100	62550	62800	62950	48600
Lower Quartile	31300	33150	34950	36650	38300	39850	41300	42650	43900	46100	48600	50350	51550	52350	52800	53100	53250	53350	40750
Lower Decile	29300	31250	33000	34500	35850	36950	37900	38750	39400	40400	41300	41750	41950	42050	42050	42100	42100	42100	35450
Mean	33550	35850	38050	40300	42400	44500	46500	48350	50150	53350	57250	60100	62150	63450	64300	64750	65000	65100	51050
Raw (Unsmoothed) Statistics																			
Upper Decile	38900	42100	41400	47350	51700	51800	53650	57300	55850	76700	80100	78600	80800	83150	83650	88650	86050	91450	74150
Upper Quartile	36900	39000	39950	43200	48250	48900	51400	52600	53150	58800	66350	73000	73250	77550	70650	72550	63400	80900	57350
Median	33900	34900	37950	37550	43200	45300	47000	48750	49050	51900	53550	58800	60350	66200	61500	62950	58650	68000	48600
Lower Quartile	32150	32200	35200	35050	37700	39400	42850	44800	44750	45850	47100	49200	51400	57050	54100	47950	52350	57150	40750
Lower Decile	30650	30200	32950	32950	33650	36700	39250	40600	41000	41850	41800	40800	45200	40750	39900	42300	43500	29650	35450
Mean	34550	35400	37500	39000	42950	44500	47300	48750	48850	54100	57000	59800	62100	65900	62650	63600	61800	67100	51050
Supporting Data																			
Total Number	133	121	233	159	203	245	204	269	178	519	340	313	239	105	82	46	82	77	3547
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	1	3

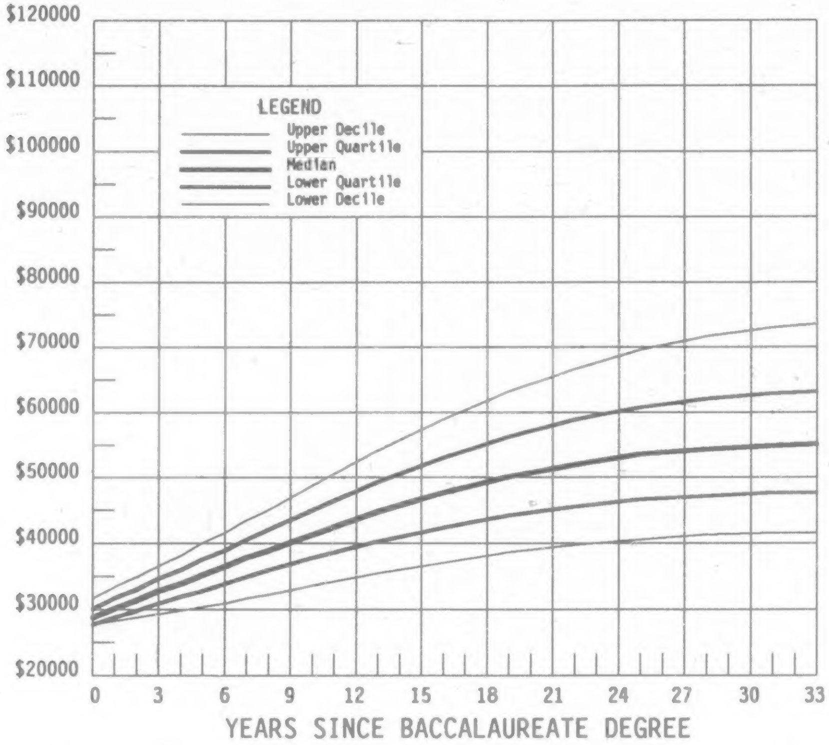
SALARY CURVES FOR ENGINEERS IN PRECISION INSTRUMENTS
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: PRECISION INSTRUMENTS

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	33600	35250	37050	38950	40900	42950	45050	47150	51350	57250	62250	66050	68650	70200	71050	71450	71650	61100
Upper Quartile	0	32550	33600	34800	36150	37650	39200	40900	42600	46100	51200	55650	59100	61500	62950	63700	64100	64250	51950
Median	0	30550	31650	32800	34050	35400	36750	38200	39600	42400	46350	49600	52000	53650	54650	55150	55400	55500	41600
Lower Quartile	0	29450	30250	31100	32050	33050	34100	35200	36300	38500	41500	43950	45750	47000	47700	48100	48250	48350	35150
Lower Decile	0	28900	29300	29800	30450	31150	31900	32700	33500	35100	37350	39150	40550	41450	41950	42250	42400	42450	30950
Mean	0	31450	32250	33200	34300	35500	36800	38200	39650	42600	46950	50700	53600	55600	56800	57450	57750	57900	44550
Raw (Unsmoothed) Statistics																			
Upper Decile	0	33800	35950	0	37400	0	0	46100	46700	47900	62250	68600	0	63600	74800	66000	0	67600	61100
Upper Quartile	0	32000	35100	0	35500	0	0	40050	42900	44750	53550	57000	0	61000	63500	63000	0	62000	51950
Median	0	29450	33650	0	34200	0	0	37650	39500	41250	47650	48500	0	57500	53750	56000	0	54000	41600
Lower Quartile	0	28550	31850	0	32150	0	0	34500	35500	38300	43600	39250	0	53400	44750	48500	0	48500	35150
Lower Decile	0	28050	30750	0	30850	0	0	32300	32200	33400	41150	37150	0	41900	36600	44000	0	44200	30950
Mean	0	30550	34050	0	34100	0	0	37900	38850	41400	49400	49600	0	55650	56400	55100	0	58400	44550
Supporting Data																			
Total Number	6	12	11	9	13	9	9	13	11	27	33	17	8	13	13	10	5	22	241
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

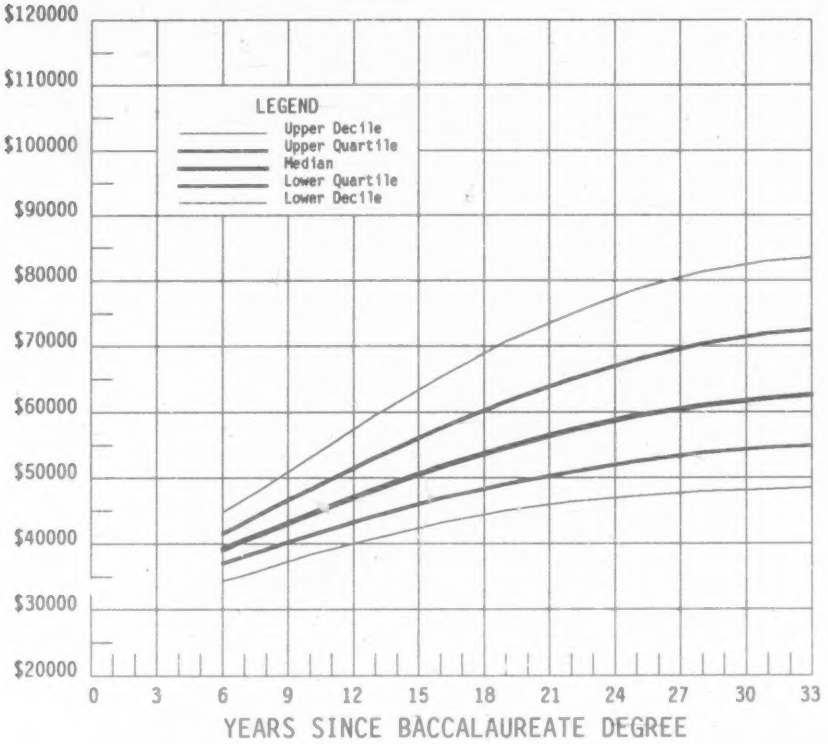
SALARY CURVES FOR ENGINEERS IN OTHER DURABLE GOODS MANUFACTURING ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER DURABLE GOODS MANUFACTURING

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31650	33200	34850	36500	38200	39900	41650	43450	45200	48800	54000	58850	63150	66700	69550	71650	73100	74900	62250
Upper Quartile	30250	31650	33100	34550	36050	37550	39050	40550	42050	45050	49250	53050	56250	58850	60750	62150	63050	64050	53200
Median	28900	30150	31400	32700	33950	35250	36500	37800	39050	41450	44850	47750	50200	52100	53500	54450	55050	55700	43750
Lower Quartile	27700	28750	29800	30850	31900	32900	33950	34950	35900	37800	40350	42500	44250	45600	46600	47250	47700	48150	35600
Lower Decile	27700	28200	28700	29250	29850	30450	31050	31650	32300	33600	35450	37150	38600	39750	40650	41250	41600	41900	30800
Mean	29250	30450	31700	32900	34150	35450	36700	37950	39150	41600	45000	48000	50600	52700	54350	55550	56350	57400	45600
Raw (Unsmoothed) Statistics																			
Upper Decile	32400	32800	34100	36300	39300	40350	40950	43750	44500	48400	55200	57850	64100	66900	67950	71650	73700	74950	62250
Upper Quartile	31100	31550	32600	33950	36600	37650	38900	40400	41700	44650	49850	52000	57550	59600	60800	62750	63100	63200	53200
Median	29700	30450	31100	31850	33850	35150	36750	37400	38900	41150	45850	46700	50550	53000	53450	55400	55250	54850	43750
Lower Quartile	28750	29200	29800	30300	31100	32400	34150	34450	35800	37050	41300	41750	44850	47300	47150	48650	46600	47200	35600
Lower Decile	28200	28350	28650	28900	29450	30500	31300	31100	32300	33100	36200	36850	39500	40900	41700	42500	41300	39750	30800
Mean	30300	30650	31300	32300	34050	35350	36550	37600	38850	41050	46000	47050	51500	53700	54800	56350	56300	56300	45600
Supporting Data																			
Total Number	135	188	173	167	175	176	155	186	199	459	426	371	365	346	304	260	288	511	4884
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

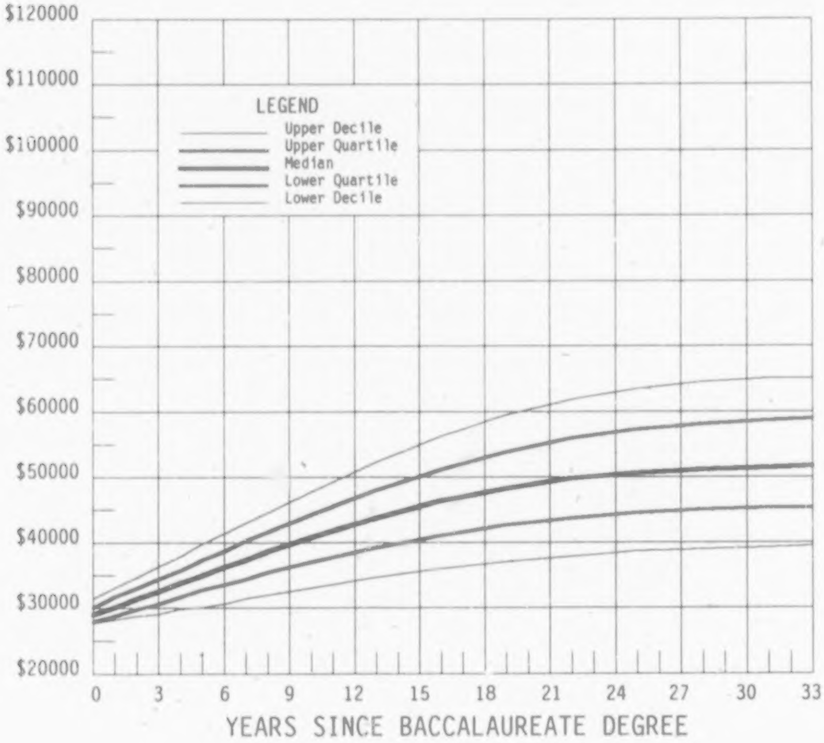
SALARY CURVES FOR ENGINEERS IN OTHER DURABLE GOODS MANUFACTURING SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER DURABLE GOODS MANUFACTURING, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	44700	46800	48900	53100	59400	65350	70600	75050	78600	81200	83000	85200	75900
Upper Quartile	0	0	0	0	0	0	41650	43300	44950	48250	53100	57650	61700	65200	68050	70300	71950	74200	64400
Median	0	0	0	0	0	0	39250	40550	41900	44500	48250	51700	54750	57300	59350	61000	62200	63850	55150
Lower Quartile	0	0	0	0	0	0	37000	38100	39200	41300	44250	46900	49200	51050	52550	53750	54600	55700	47200
Lower Decile	0	0	0	0	0	0	34300	35300	36350	38300	40900	43150	44950	46300	47250	47900	48300	48700	41350
Mean	0	0	0	0	0	0	39650	41100	42500	45300	49300	53000	56250	59000	61200	62900	64150	65800	57050
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	43250	46700	53150	51100	62100	62650	71550	75250	79350	78450	82850	86000	75900
Upper Quartile	0	0	0	0	0	0	40600	44000	45900	46600	56450	55150	62450	65250	66700	70100	71850	74850	64400
Median	0	0	0	0	0	0	38750	39500	42700	43700	50700	49500	54900	58100	60000	58850	61100	65000	55150
Lower Quartile	0	0	0	0	0	0	35850	36000	40750	41750	45700	44750	48900	51850	53100	53150	54300	55900	47200
Lower Decile	0	0	0	0	0	0	34350	33200	35800	38900	42450	41000	44550	47950	47000	45850	49650	48600	41350
Mean	0	0	0	0	0	0	38500	40100	43650	44700	51950	50650	56300	59400	61650	61350	63850	66450	57050
Supporting Data																			
Total Number	1	4	5	7	8	8	15	12	19	65	94	90	137	121	110	87	113	154	1050
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

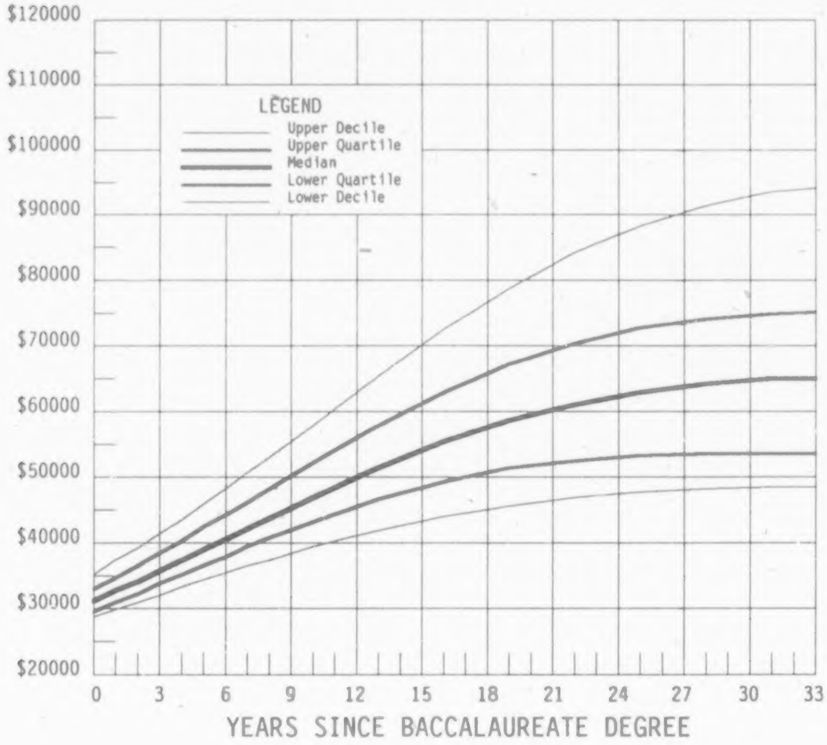
SALARY CURVES FOR ENGINEERS IN OTHER DURABLE GOODS MANUFACTURING NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER DURABLE GOODS MANUFACTURING, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31600	33150	34700	36350	38000	39650	41300	42950	44600	47850	52350	56250	59450	61800	63450	64450	65000	65350	57400
Upper Quartile	30250	31650	33050	34450	35850	37300	38750	40150	41550	44300	48050	51300	53950	55950	57350	58250	58800	59250	49150
Median	28950	30150	31400	32600	33850	35050	36250	37450	38600	40850	43800	46350	48300	49750	50700	51300	51600	51750	40800
Lower Quartile	27900	28900	29850	30800	31750	32700	33600	34500	35350	37000	39250	41050	42550	43650	44400	44950	45250	45550	33850
Lower Decile	27850	28250	28700	29200	29750	30250	30800	31350	31900	33000	34600	35950	37100	38000	38650	39050	39300	39500	30300
Mean	29350	30500	31650	32850	34000	35200	36350	37500	38600	40750	43700	46200	48250	49850	51000	51750	52250	52750	42500
Raw (Unsmoothed) Statistics																			
Upper Decile	32150	32600	34150	36250	39050	40250	40800	43500	43800	47900	52000	56200	59600	61900	62550	65900	66350	64650	57400
Upper Quartile	31050	31500	32500	33850	36500	37500	38550	40300	40950	44100	48500	50850	54500	56750	56100	60300	59500	58300	49150
Median	29700	30400	31050	31700	33800	34950	36600	37300	38600	40350	45000	45750	48300	50400	50350	53800	50100	51350	40800
Lower Quartile	28750	29150	29800	30250	31000	32250	33900	34400	35500	36550	40000	40900	42750	44200	44700	47700	43200	45050	33850
Lower Decile	28200	28350	28650	28850	29350	30450	31100	31000	32000	32600	35050	36250	37700	38600	40150	41100	37400	37950	30300
Mean	30250	30600	31250	32150	33950	35250	36350	37400	38350	40450	44300	45900	48600	50650	50950	53850	51400	51950	42500
Supporting Data																			
Total Number	134	184	168	160	167	168	140	174	180	394	332	281	228	225	194	173	175	357	3834
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

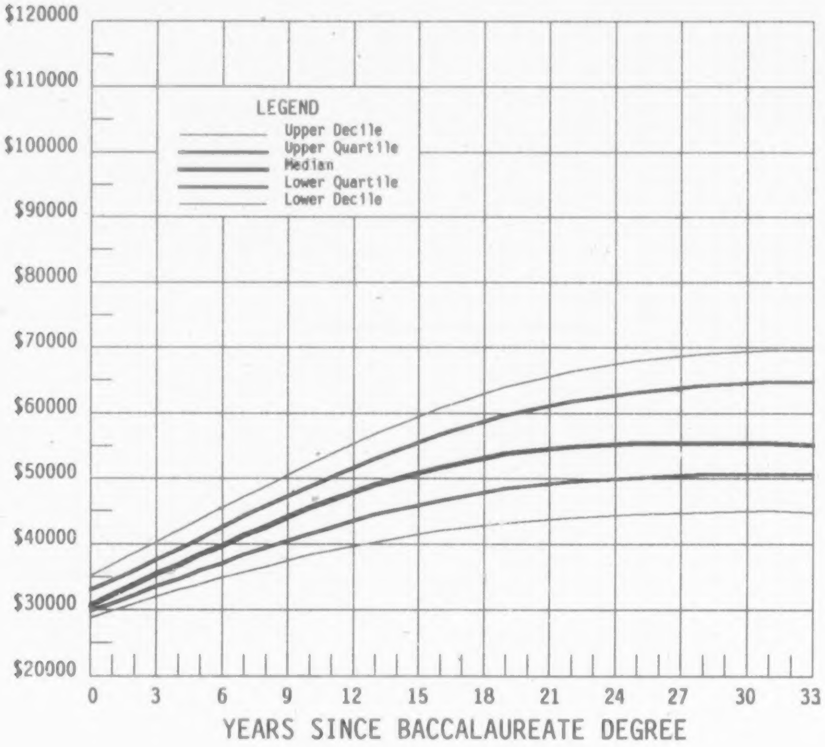
SALARY CURVES FOR ENGINEERS IN OTHER NONDURABLE GOODS MANUFACTURING
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER NONDURABLE GOODS MANUFACTURING

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35250	37250	39300	41400	43600	45900	48200	50600	53050	57950	65400	72450	78800	84150	88350	91450	93550	96000	74850
Upper Quartile	33000	34750	36600	38450	40350	42300	44250	46250	48250	52200	57850	62950	67150	70400	72700	74150	75000	75600	61100
Median	31200	32700	34250	35800	37400	39000	40600	42200	43800	47000	51450	55350	58600	61150	62950	64200	64950	65600	50500
Lower Quartile	29600	31000	32400	33800	35200	36600	38000	39400	40750	43300	46650	49400	51350	52650	53350	53600	53600	53150	41000
Lower Decile	28800	29900	31000	32100	33200	34300	35400	36450	37450	39350	41950	44050	45700	46900	47650	48150	48400	48550	33700
Mean	31800	33300	34900	36500	38100	39750	41450	43100	44750	48050	52750	57000	60600	63450	65600	67100	68050	69100	53250
Raw (Unsmoothed) Statistics																			
Upper Decile	33900	35000	38300	42600	45800	49400	49100	51650	55400	60650	69600	66600	71200	90500	75850	87750	90000	113100	74850
Upper Quartile	31800	32650	35400	39500	42900	46250	46850	48250	49250	51800	60400	59250	62000	73250	69650	73650	70000	83450	61100
Median	30900	31100	33800	35800	38000	41000	42900	42500	44000	47950	52000	54900	54800	62000	61500	61650	60650	72300	50500
Lower Quartile	30050	30000	31900	34600	35800	35250	38750	39050	39750	44200	47300	48700	48800	54650	54100	54300	52600	53250	41000
Lower Decile	28850	28800	30450	33400	34500	34200	36350	32900	38100	41200	39800	44300	42800	48900	50100	50550	45500	48350	33700
Mean	31450	31600	34050	36950	39450	41000	42700	43950	45400	49650	53600	55150	56050	65950	62850	64850	66500	74600	53250
Supporting Data																			
Total Number	21	20	19	24	22	14	25	19	22	55	42	57	44	39	31	39	30	49	572
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

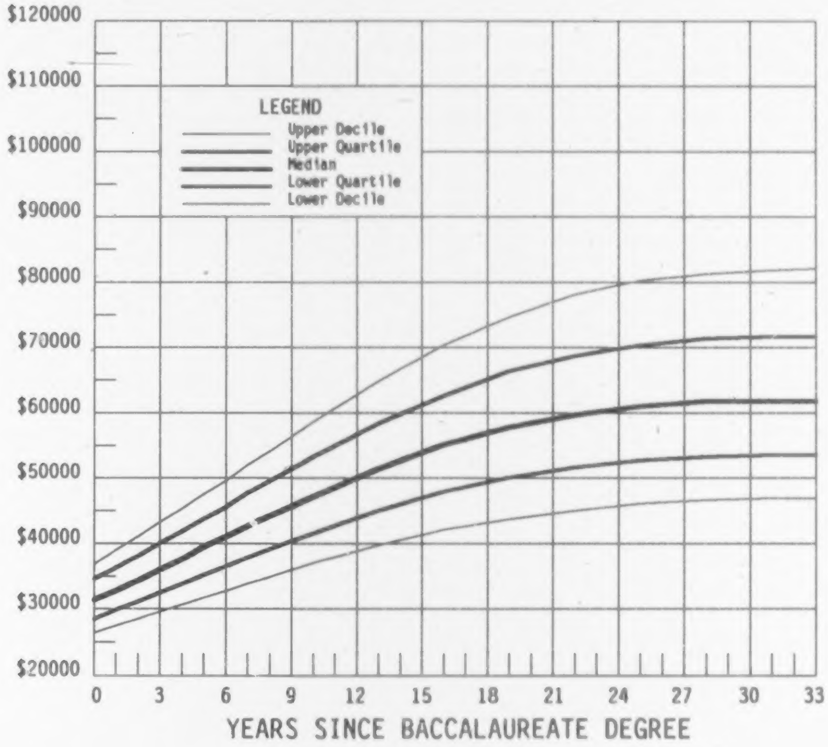
SALARY CURVES FOR ENGINEERS IN OTHER NONDURABLE GOODS MANUFACTURING NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER NONDURABLE GOODS MANUFACTURING, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35250	36900	38600	40300	42000	43750	45500	47200	48900	52200	56800	60750	63950	66300	67950	69000	69550	69950	60650
Upper Quartile	33000	34500	36100	37700	39300	40900	42550	44150	45750	48800	53100	56750	59650	61800	63300	64200	64700	64950	52900
Median	30800	32300	33800	35350	36850	38350	39850	41350	42750	45500	49000	51800	53750	54900	55450	55550	55400	54700	45400
Lower Quartile	29850	31050	32300	33550	34800	36000	37200	38400	39550	41700	44500	46800	48450	49600	50250	50550	50650	50450	36900
Lower Decile	28900	29900	30950	31950	32950	33900	34850	35800	36650	38300	40400	42100	43300	44100	44600	44850	44950	44800	32050
Mean	31700	33100	34450	35850	37250	38650	40050	41400	42700	45250	48650	51500	53650	55200	56200	56750	57000	57050	46050
Raw (Unsmoothed) Statistics																			
Upper Decile	34400	35200	36800	42050	43400	0	48800	49100	51650	52250	55400	58250	61600	65200	65000	63900	69600	77600	60650
Upper Quartile	31900	33000	35200	38950	41400	0	45900	45100	46450	48750	52000	55000	57500	61750	60500	61400	61350	72000	52900
Median	31000	31150	33500	35700	37500	0	41750	40600	42500	45950	48800	50600	52250	54900	56500	55600	56000	55000	45400
Lower Quartile	30100	29800	31500	34550	35400	0	38300	38200	39400	42900	42500	45700	47500	50400	51300	51700	50000	50500	36900
Lower Decile	28900	28700	30300	33300	34300	0	36150	32300	37800	39500	36800	41600	41600	47700	48500	47300	42800	43700	32050
Mean	31650	31700	33700	36700	38200	0	42050	40850	43300	45950	47600	49800	52500	56100	55950	55950	55550	59350	46050
Supporting Data																			
Total Number	18	18	16	23	18	9	22	13	19	35	24	32	22	17	15	21	16	28	366
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

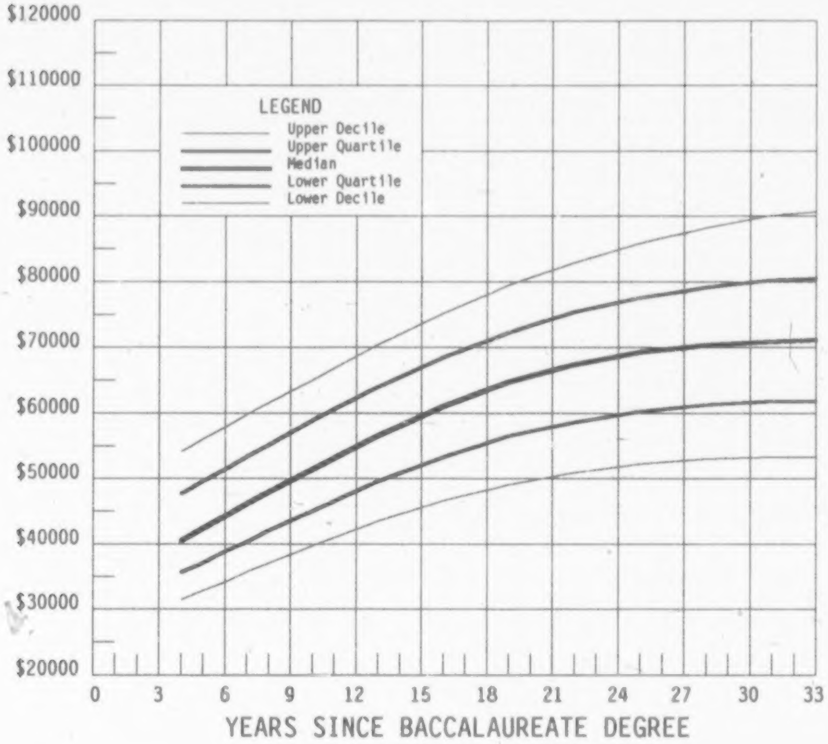
SALARY CURVES FOR ENGINEERS IN ALL NON-MANUFACTURING INDUSTRIES ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL NON-MANUFACTURING INDUSTRIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36900	38900	40950	43100	45250	47450	49700	51950	54200	58600	64900	70350	74800	78050	80200	81450	82000	82100	70800
Upper Quartile	34550	36350	38150	40000	41900	43800	45700	47600	49500	53250	58400	62800	66300	68850	70500	71400	71850	71850	59950
Median	31350	32900	34500	36100	37700	39350	40950	42600	44200	47300	51550	55100	57900	59850	61100	61750	62000	61900	50100
Lower Quartile	28550	29850	31200	32550	33900	35250	36600	37900	39200	41700	45150	47950	50200	51750	52750	53350	53600	53600	40900
Lower Decile	26300	27350	28500	29600	30700	31800	32900	33950	35000	37050	39750	42050	43850	45200	46100	46650	46950	47150	33900
Mean	31700	33250	34800	36400	38050	39650	41300	42900	44550	47650	52000	55750	58750	60950	62450	63350	63850	64050	51600
Raw (Unsmoothed) Statistics																			
Upper Decile	33800	39150	40700	43450	46500	48250	51400	52800	55750	59300	63700	68050	73400	76100	80900	82750	82300	84250	70800
Upper Quartile	32600	35050	38600	40100	42700	44350	47250	48500	51000	53950	57550	60950	64650	67450	70750	72000	72500	73750	59950
Median	30650	32300	34250	35850	37850	39550	42050	42900	45250	48200	51000	54150	56550	59100	60600	61750	62500	63400	50100
Lower Quartile	28300	29650	30850	32550	33750	35450	37250	37850	39950	42200	44800	47450	49450	51300	53350	53200	53750	54100	40900
Lower Decile	26500	27600	27900	29800	30200	31950	32850	34050	35350	37400	39550	41850	43250	45350	46750	46550	47150	47050	33900
Mean	30650	32850	34650	36450	38350	39900	42200	43250	45550	48350	51500	54700	57550	60100	62800	63750	64050	65200	51600
Supporting Data																			
Total Number	1028	1213	1729	1912	1922	1886	2194	2235	2302	5900	5317	4869	4379	3596	3086	2819	2467	3787	52643
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	2	4	11	12	7	35	72
Less Than $22000	6	7	14	4	2	8	3	1	0	2	0	0	0	1	0	2	1	0	51

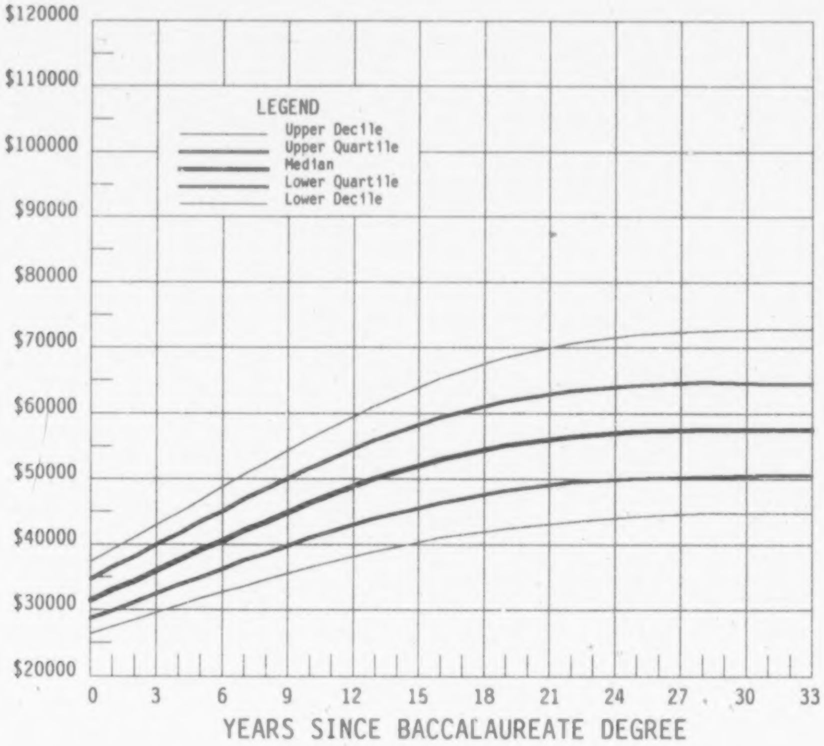
SALARY CURVES FOR ENGINEERS IN ALL NON-MANUFACTURING INDUSTRIES SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL NON-MANUFACTURING INDUSTRIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	54250	56100	57950	59800	61600	65200	70400	75150	79350	82950	85950	88300	90100	92700	81800
Upper Quartile	0	0	0	0	47800	49700	51550	53450	55300	58950	64100	68600	72400	75400	77650	79200	80200	81350	72400
Median	0	0	0	0	40550	42400	44250	46100	47950	51550	56650	61100	64700	67400	69250	70400	71000	71350	62600
Lower Quartile	0	0	0	0	35600	37200	38800	40400	42000	45150	49550	53400	56500	58800	60400	61350	61850	62100	53050
Lower Decile	0	0	0	0	31500	32900	34250	35650	37050	39700	43400	46600	49150	51000	52200	52950	53300	53350	44250
Mean	0	0	0	0	41950	43700	45400	47100	48800	52150	56900	61150	64700	67550	69700	71200	72200	73300	63400
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	54700	51300	57550	59550	63300	67250	70050	73750	78700	81750	88200	91250	89250	90900	81800
Upper Quartile	0	0	0	0	45900	45800	51200	51300	58350	61500	63950	67300	72050	74200	78400	80600	79000	81200	72400
Median	0	0	0	0	38350	41950	43500	43400	49350	53400	57450	60450	63650	66200	69650	71300	70250	71500	62600
Lower Quartile	0	0	0	0	33300	37300	40700	37800	42900	46150	49250	53400	56250	58000	60950	61800	61150	61900	53050
Lower Decile	0	0	0	0	28650	33150	35500	33950	38750	40750	42950	45750	49150	50600	52950	53850	53850	52200	44250
Mean	0	0	0	0	40200	42250	45400	45400	50250	53700	57000	60300	64300	66500	70650	72450	71400	72800	63400
Supporting Data																			
Total Number	6	4	24	45	93	137	217	285	329	1197	1367	1678	1606	1438	1185	1115	991	1467	13198
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	2	3	8	9	6	26	54
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	5

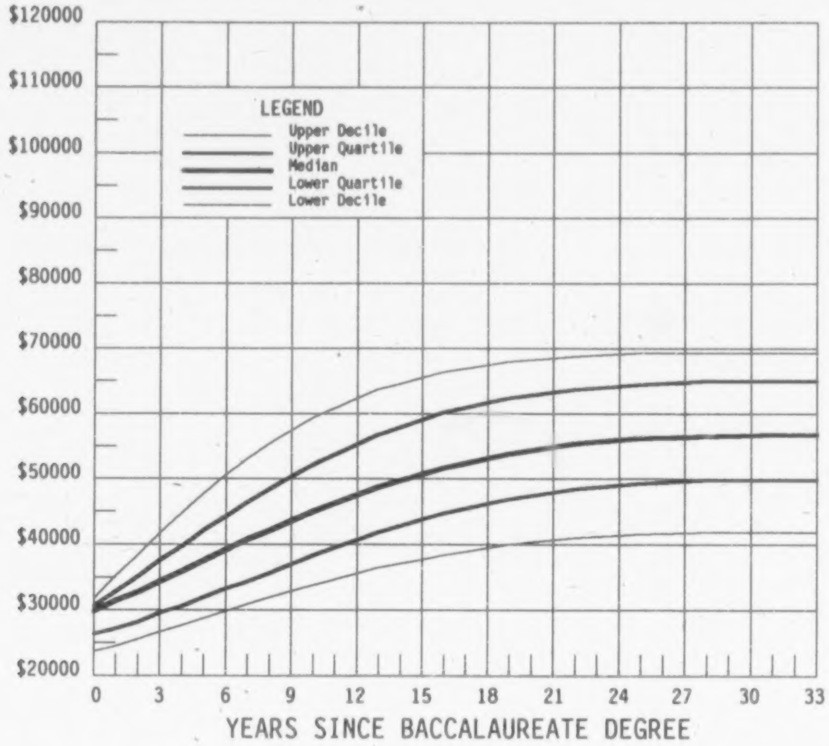
SALARY CURVES FOR ENGINEERS IN ALL NON-MANUFACTURING INDUSTRIES NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ALL NON-MANUFACTURING INDUSTRIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37300	39150	41000	42950	44850	46800	48750	50650	52550	56200	61150	65250	68400	70600	71900	72550	72750	72450	62800
Upper Quartile	34750	36450	38200	39950	41700	43450	45200	46900	48600	51800	56050	59500	61950	63550	64400	64700	64600	64000	55050
Median	31450	32950	34500	36000	37550	39100	40600	42100	43550	46350	50050	53000	55200	56600	57350	57650	57600	57100	46850
Lower Quartile	28700	29950	31250	32500	33800	35050	36350	37550	38750	41050	44050	46500	48300	49500	50200	50500	50600	50350	38750
Lower Decile	26450	27500	28550	29600	30650	31700	32700	33700	34650	36500	38950	40950	42450	43550	44300	44700	44900	44950	32650
Mean	31900	33350	34800	36300	37800	39300	40800	42250	43700	46400	50100	53150	55400	57000	57950	58450	58600	58450	47650
Raw (Unsmoothed) Statistics																			
Upper Decile	33800	39100	40650	43400	46350	48100	50700	52350	54450	56500	59700	62500	66350	67900	72250	71800	74350	76200	62800
Upper Quartile	32600	35050	38600	40050	42600	44200	47050	48200	50200	52500	55100	57300	59400	61900	63450	64150	66000	67300	55050
Median	30700	32300	34200	35800	37850	39400	41750	42800	44700	47200	49500	51650	53400	55350	57000	57050	58250	59200	46850
Lower Quartile	28300	29650	30850	32600	33750	35350	37000	37850	39500	41500	43850	45750	46950	48800	50600	50250	50600	51400	38750
Lower Decile	26500	27600	27950	29850	30400	31900	32650	34100	35050	36800	38700	40900	41450	43850	44550	44400	44500	45400	32650
Mean	30600	32850	34600	36400	38250	39750	41850	42950	44800	47000	49600	51750	53650	55800	58000	58000	59150	60450	47650
Supporting Data																			
Total Number	1022	1209	1704	1864	1828	1748	1975	1948	1976	4702	3947	3189	2770	2156	1902	1701	1475	2321	39448
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	3	1	9	18
Less Than $22000	6	7	12	4	2	8	3	1	0	2	0	0	0	0	0	1	1	0	47

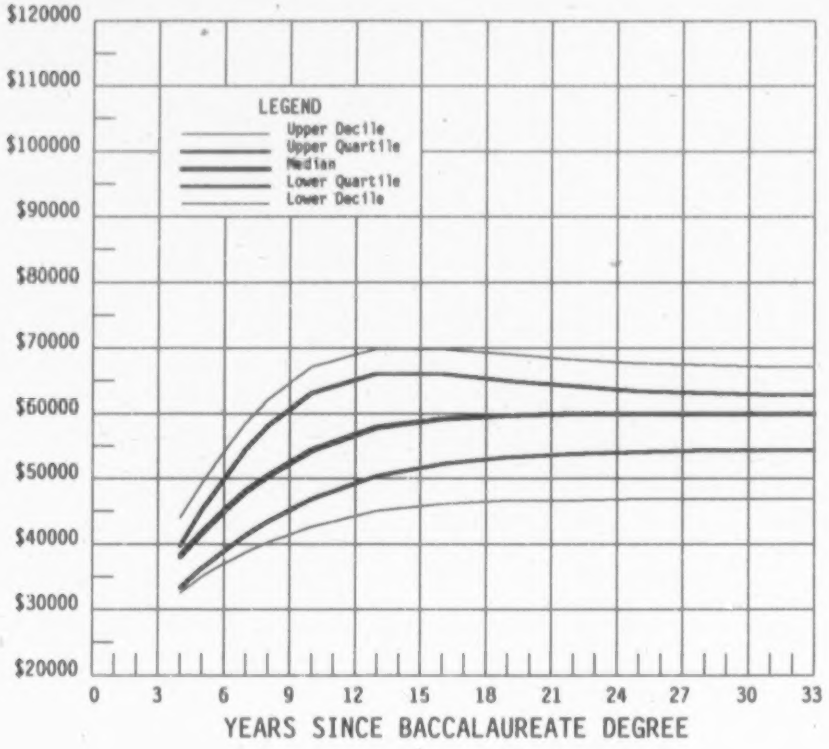
SALARY CURVES FOR ENGINEERS IN COMMUNICATION SERVICES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: COMMUNICATION SERVICES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31850	35150	38450	41700	44800	47750	50550	53100	55450	59400	63700	66450	68000	68850	69250	69400	69450	69500	66500
Upper Quartile	30550	32850	35200	37500	39800	42100	44300	46450	48500	52200	56800	60200	62450	63850	64600	65000	65150	65250	58200
Median	29850	31350	32900	34450	36050	37600	39200	40750	42250	45150	48900	51850	53950	55350	56150	56550	56750	56850	44600
Lower Quartile	26300	27300	28350	29500	30700	31950	33200	34500	35800	38400	41900	44800	47000	48400	49300	49750	49950	50050	36850
Lower Decile	23700	24650	25650	26700	27750	28800	29850	30900	31950	33900	36450	38500	39950	40950	41500	41800	41950	42000	31000
Mean	28600	30450	32300	34150	36000	37800	39600	41300	42900	45900	49650	52500	54450	55700	56450	56850	57000	57100	47400
Raw (Unsmoothed) Statistics																			
Upper Decile	31800	33900	47900	40700	44850	41850	46100	47650	52450	68300	74350	65050	67550	66300	59850	67200	77800	67650	66500
Upper Quartile	31050	33400	35850	36950	40400	40050	41100	43350	46100	55450	66550	55800	65700	60900	59100	56000	64750	66650	58200
Median	29000	32650	34200	34500	35350	38300	36750	38650	41300	50100	47450	43850	56650	45850	57800	51500	56650	65050	44600
Lower Quartile	24900	29850	28150	29350	29550	34550	31500	34600	37750	39300	40600	39250	44400	41250	56500	46500	44400	57750	36850
Lower Decile	23650	25050	26600	25200	28200	29000	28200	29950	33500	34650	37200	36750	38850	37700	45050	41600	35100	43150	31000
Mean	28100	31500	34400	33650	35750	37100	36850	39000	42250	49000	52250	48100	54950	50200	55850	52350	55700	60850	47400
Supporting Data																			
Total Number	33	27	28	31	42	55	52	45	51	158	115	79	81	44	96	25	23	104	1090
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

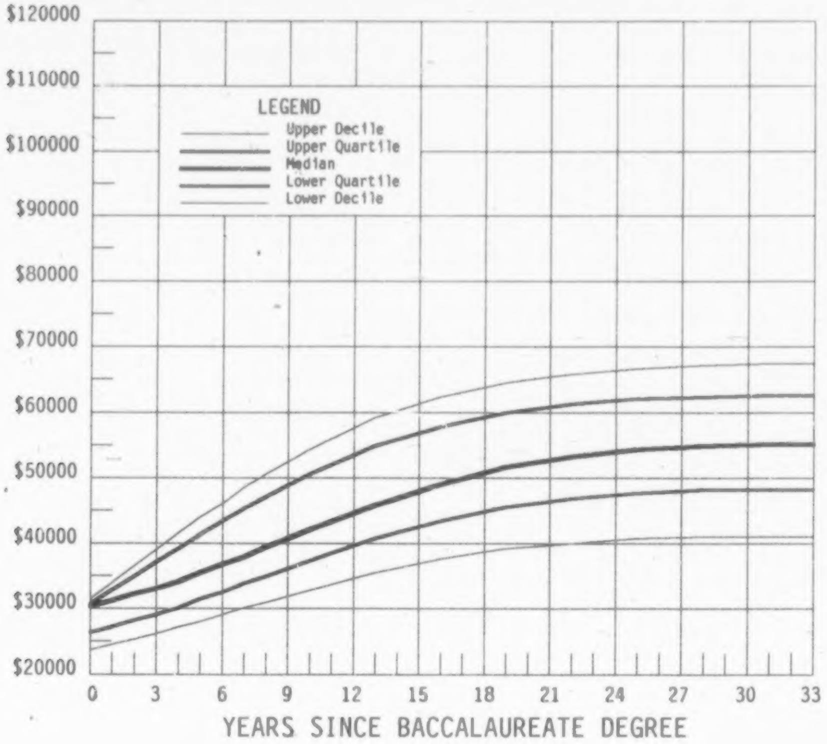
SALARY CURVES FOR ENGINEERS IN COMMUNICATION SERVICES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: COMMUNICATION SERVICES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	43900	49200	54100	58450	62100	67100	70000	69950	69050	68250	67650	67350	67200	67100	68950
Upper Quartile	0	0	0	0	39850	45050	49950	54400	58100	63300	66250	66150	65150	64200	63600	63250	63050	63000	64450
Median	0	0	0	0	38200	41700	44950	47900	50450	54350	57750	59200	59750	59900	59950	59950	59950	59950	54700
Lower Quartile	0	0	0	0	33400	36200	38850	41250	43400	46950	50450	52400	53450	53950	54200	54350	54400	54400	47050
Lower Decile	0	0	0	0	32650	34900	36950	38750	40350	42750	44950	46050	46600	46800	46900	46950	46950	47000	39400
Mean	0	0	0	0	37150	41050	44700	47900	50700	54850	58000	58950	59000	58800	58650	58550	58500	58450	55200
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	44300	0	53600	0	55900	71000	68800	66850	67450	68400	0	70250	0	67500	68950
Upper Quartile	0	0	0	0	40050	0	48500	0	52600	69300	62000	63750	59350	63700	0	62500	0	66400	64450
Median	0	0	0	0	38350	0	43000	0	46350	61000	49250	60450	54500	61800	0	54300	0	64600	54700
Lower Quartile	0	0	0	0	33000	0	37300	0	44100	51150	43000	51650	50200	59000	0	49050	0	58400	47050
Lower Decile	0	0	0	0	32250	0	36500	0	39650	45600	39050	50300	45050	35800	0	47550	0	50650	39400
Mean	0	0	0	0	37050	0	43700	0	47750	59450	52300	58150	55200	59450	0	56450	0	61450	55200
Supporting Data																			
Total Number	0	0	4	2	10	6	10	9	12	47	25	25	19	11	6	13	3	43	245
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

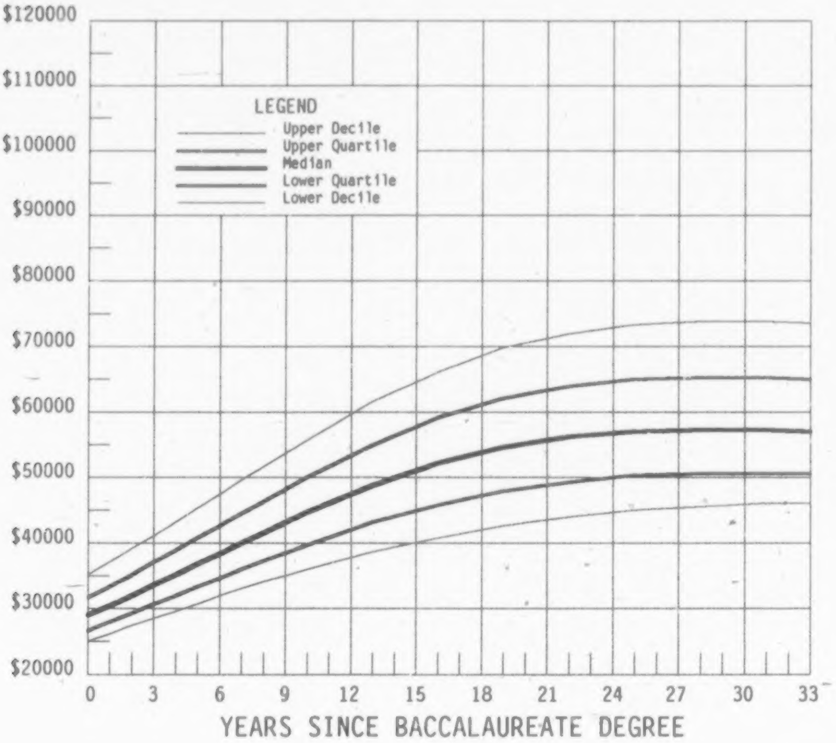
SALARY CURVES FOR ENGINEERS IN COMMUNICATION SERVICES NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: COMMUNICATION SERVICES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	31350	33900	36450	39000	41500	42900	46250	48500	50650	54450	59100	62450	64650	66000	66750	67150	67350	67400	65500
Upper Quartile	30600	32750	34950	37150	39300	41450	43450	45450	47300	50700	54850	57900	60000	61300	62100	62500	62650	62750	56200
Median	30500	31300	32150	33150	34250	35450	36700	38000	39350	42100	45950	49200	51700	53350	54350	54900	55150	55300	41550
Lower Quartile	26350	27200	28150	29150	30250	31400	32600	33800	35050	37450	40750	43500	45550	46900	47700	48150	48350	48450	35050
Lower Decile	23850	24600	25400	26250	27150	28100	29100	30050	31050	32900	35500	37550	39100	40100	40700	41000	41150	41200	30100
Mean	28750	30200	31650	33150	34650	36200	37750	39300	40800	43650	47450	50450	52600	54000	54850	55300	55500	55600	45200
Raw (Unsmoothed) Statistics																			
Upper Decile	31800	33900	35950	40100	45050	40600	43350	44950	49200	55450	74600	55750	67550	64400	59650	61800	78000	67750	65500
Upper Quartile	31050	33400	35150	36350	40650	39650	39750	42400	43750	54000	72400	45600	66050	50750	58950	54100	63400	66850	56200
Median	29000	32650	32650	34300	34650	38050	34200	36550	40000	42400	45950	40950	58350	43600	57700	46750	49750	65300	41550
Lower Quartile	24900	29850	27700	29000	29050	34450	30950	34150	36350	37550	40200	37950	42450	40550	56500	44100	42100	54150	35050
Lower Decile	23650	25050	26450	25150	27850	28950	25800	29350	33100	33650	36500	36200	38200	37800	43150	38300	34500	42400	30100
Mean	28100	31500	32050	33200	35300	36500	35150	37500	40550	44600	52200	43550	54900	47200	55500	47850	54000	60400	45200
Supporting Data																			
Total Number	33	27	24	30	32	49	42	37	39	112	90	54	61	33	90	12	20	61	845
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

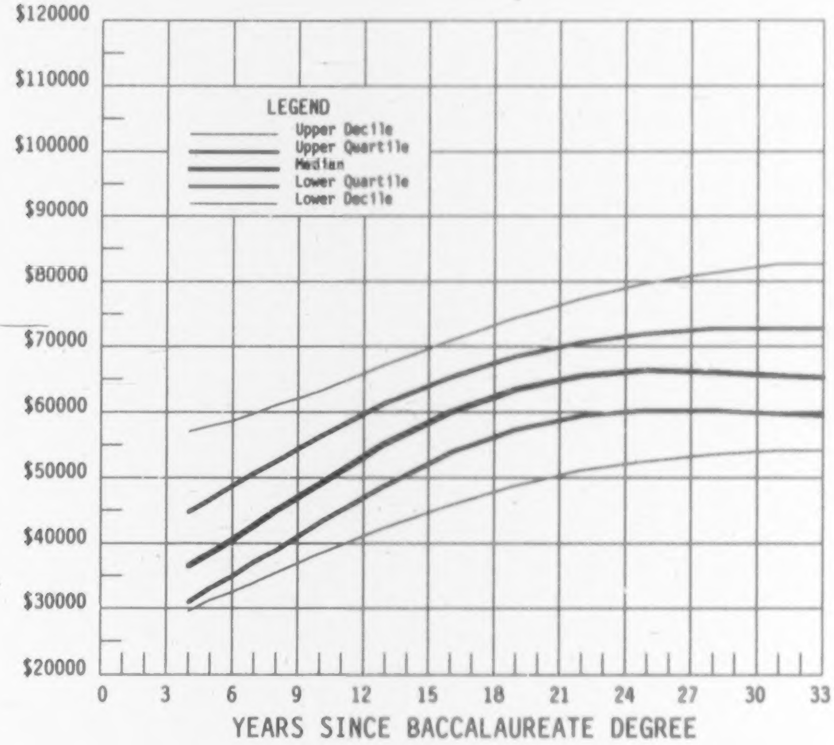
SALARY CURVES FOR ENGINEERS IN CONSTRUCTION
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSTRUCTION

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35150	37100	39100	41150	43200	45350	47450	49600	51700	55850	61500	66200	69750	72050	73350	73850	73800	72950	65600
Upper Quartile	31650	33400	35200	37050	38900	40800	42700	44600	46450	50100	55050	59100	62150	64050	65100	65400	65300	64400	57750
Median	28950	30450	32000	33600	35200	36850	38450	40050	41650	44700	48850	52200	54700	56300	57100	57400	57350	56650	48950
Lower Quartile	26700	28000	29300	30650	32000	33300	34650	36000	37250	39750	43150	45900	48000	49450	50300	50700	50800	50550	40800
Lower Decile	25050	26250	27400	28550	29700	30800	31900	33000	34050	36000	38650	40900	42650	44050	45050	45700	46150	46500	33100
Mean	29950	31450	33000	34550	36100	37700	39250	40850	42400	45400	49500	52950	55550	57400	58500	59050	59250	59000	49700
Raw (Unsmoothed) Statistics																			
Upper Decile	33250	35350	38800	42900	46400	46700	49650	49250	51000	56500	61850	65250	69100	70250	73600	69150	74500	78100	65600
Upper Quartile	31650	32900	34450	36800	40500	41050	44600	43600	45950	50000	55850	59500	61550	63400	64150	62900	65950	66600	57750
Median	29350	30550	31350	32700	34800	36950	39750	39800	42100	44800	49300	52750	54350	55250	55850	55750	57650	58750	48950
Lower Quartile	27450	28550	28350	30100	31250	33000	34050	36050	38150	39750	43800	46550	47450	48450	49650	49550	51350	51800	40800
Lower Decile	26300	26550	26500	28200	28450	30550	31000	33150	34450	36050	39400	41300	42400	44200	44600	44650	45600	46700	33100
Mean	29800	31650	32300	34150	36650	38050	40100	40350	42450	45350	50050	53300	55300	56400	58050	57100	59350	61000	49700
Supporting Data																			
Total Number	129	132	149	141	164	139	169	278	280	680	730	775	655	553	367	311	243	388	6283
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	5
Less Than $22000	1	0	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6

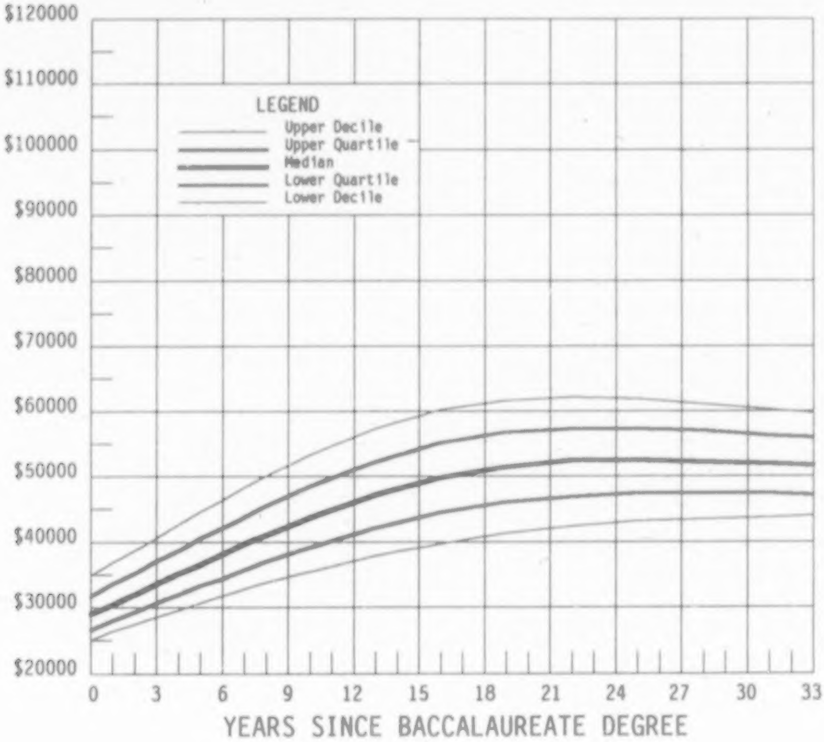
SALARY CURVES FOR ENGINEERS IN CONSTRUCTION SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSTRUCTION, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	57000	57850	58800	59850	60950	63300	67100	70850	74300	77300	79700	81450	82550	83550	75550
Upper Quartile	0	0	0	0	44800	46750	48700	50650	52550	56200	61200	65350	68500	70700	72050	72700	72850	72550	67550
Median	0	0	0	0	36400	38500	40650	42800	44950	49200	55100	59950	63450	65500	66300	66250	65700	63950	61500
Lower Quartile	0	0	0	0	31050	32950	34950	36950	39000	43100	48900	53850	57400	59550	60400	60350	59800	57950	54050
Lower Decile	0	0	0	0	29700	31100	32550	34000	35450	38300	42350	45950	48900	51100	52650	53600	54100	54400	43900
Mean	0	0	0	0	39500	41300	43150	45000	46800	50400	55350	59550	62850	65150	66600	67400	67650	67450	61150
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	62150	63200	56400	54500	62000	62300	67450	71450	75900	75600	82250	79450	79900	84450	75550
Upper Quartile	0	0	0	0	52250	46250	43700	43050	57000	57000	62850	65400	68850	69450	73400	68000	72650	74600	67550
Median	0	0	0	0	37000	41000	41650	37650	44000	48600	58200	60700	62650	64100	65750	63600	65650	65800	61500
Lower Quartile	0	0	0	0	29650	35000	35500	34350	39500	42550	50400	55050	57050	58350	59400	57700	58750	60250	54050
Lower Decile	0	0	0	0	28250	32950	32600	32650	36000	38600	42950	45500	48500	51200	53400	53100	53650	54700	43900
Mean	0	0	0	0	42100	44550	42100	40800	46600	49700	56750	59850	63250	64200	67450	65050	66650	68750	61150
Supporting Data																			
Total Number	2	1	2	4	14	14	19	30	30	123	185	275	245	228	142	124	112	197	1747
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	5
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

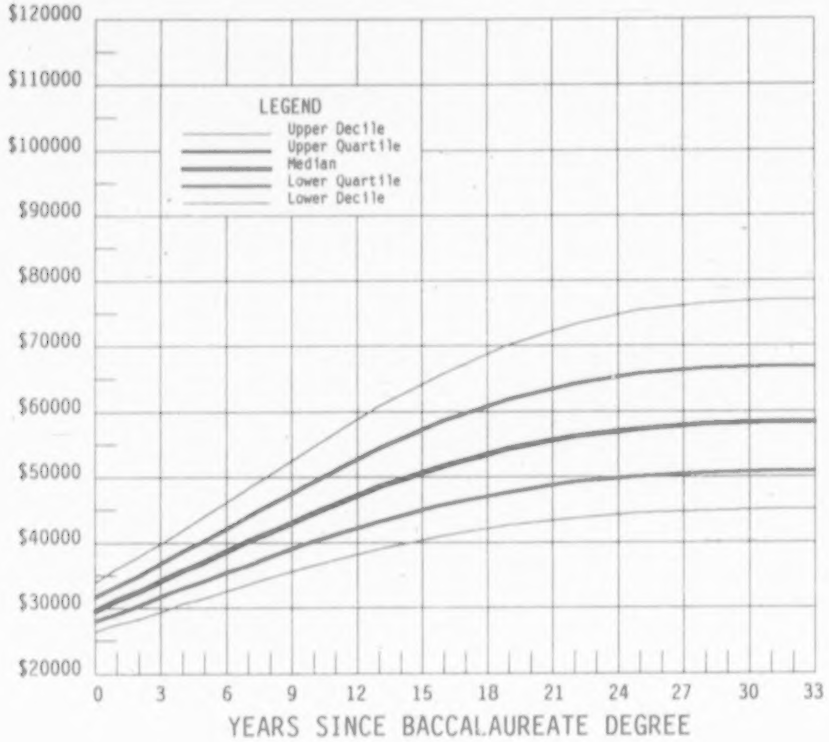
SALARY CURVES FOR ENGINEERS IN CONSTRUCTION
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSTRUCTION, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34900	36800	38700	40650	42600	44500	46400	48250	50050	53300	57400	60200	61700	62200	61850	61100	60150	58150	57650
Upper Quartile	31850	33550	35250	37000	38750	40450	42200	43850	45500	48500	52350	55100	56750	57450	57450	56950	56300	54700	52250
Median	29000	30500	32000	33550	35100	36650	38150	39650	41100	43850	47300	49950	51600	52450	52650	52400	51950	50750	45550
Lower Quartile	26800	28050	29350	30650	31950	33200	34500	35750	36950	39250	42200	44500	46100	47050	47500	47550	47400	46750	38300
Lower Decile	25150	26300	27450	28550	29650	30750	31800	32800	33750	35550	37900	39800	41300	42350	43100	43550	43850	44050	31600
Mean	29900	31350	32850	34350	35800	37300	38750	40150	41550	44100	47400	49850	51500	52350	52600	52450	52050	51050	45250
Raw (Unsmoothed) Statistics																			
Upper Decile	33200	35100	38200	42300	44850	45950	49400	48700	50000	54150	57250	58800	59600	60750	60950	60450	62250	62100	57650
Upper Quartile	31600	32850	34300	36800	40100	40600	44750	43700	45550	49000	52650	54650	55650	55800	56550	56300	57850	57350	52250
Median	29300	30500	31250	32800	34550	36550	39450	39850	41950	44300	47450	50100	50750	50300	52250	52650	52800	52550	45550
Lower Quartile	27450	28500	28300	30150	31300	32800	33950	36200	37950	39250	42850	44950	45200	46000	47000	46750	47950	48300	38300
Lower Decile	26300	26550	26500	28150	28500	30350	30800	33350	34350	35650	38700	40200	41000	42150	42900	42250	42800	44600	31600
Mean	29550	31450	32100	34150	36150	37300	39850	40300	41950	44400	47750	49700	50600	50950	52100	51850	53150	53050	45250
Supporting Data																			
Total Number	127	131	147	137	150	125	150	248	250	557	545	500	410	325	225	187	131	191	4536
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	1	0	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6

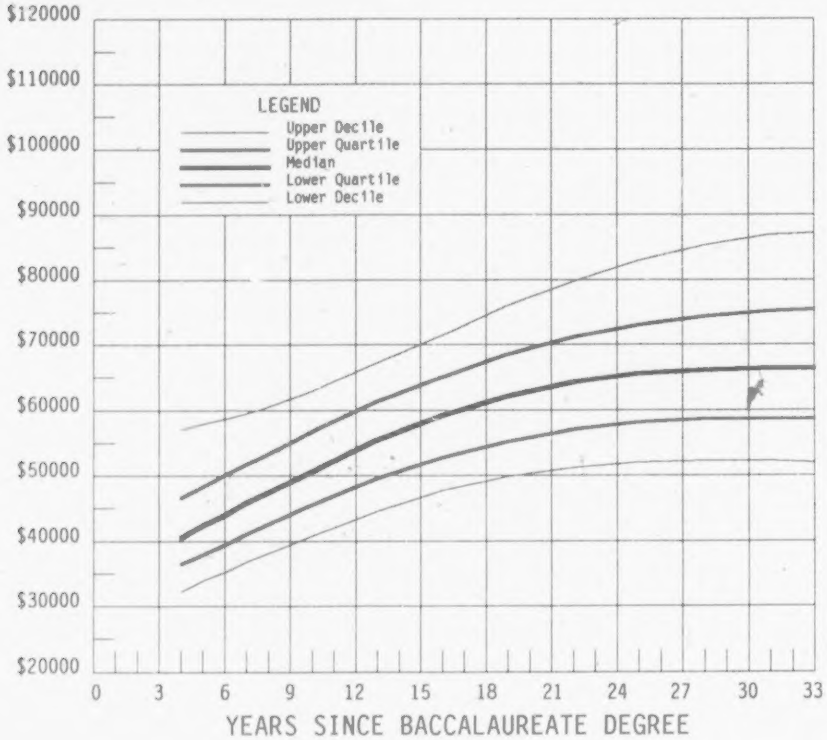
SALARY CURVES FOR ENGINEERS IN CONSULTING & ENGINEERING SERVICES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSULTING & ENGINEERING SERVICES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34000	35900	37850	39850	41900	44000	46150	48300	50450	54700	60750	66000	70250	73350	75400	76500	77000	76950	67050
Upper Quartile	31650	33350	35050	36800	38600	40400	42250	44050	45900	49450	54400	58600	61950	64350	65850	66650	66950	66800	58000
Median	29700	31150	32600	34100	35650	37150	38650	40150	41650	44550	48500	51800	54400	56200	57400	58050	58300	58250	48500
Lower Quartile	27950	29200	30450	31700	32950	34200	35450	36650	37850	40150	43250	45800	47800	49250	50150	50700	50950	51000	39800
Lower Decile	26300	27350	28400	29450	30550	31600	32600	33600	34600	36450	38950	41000	42550	43700	44400	44850	45050	45100	33550
Mean	30200	31650	33100	34600	36150	37650	39200	40750	42250	45200	49250	52800	55600	57700	59150	60000	60500	60750	49950
Raw (Unsmoothed) Statistics																			
Upper Decile	33500	35650	37550	39300	42950	43800	46800	48900	50950	54800	60950	66250	69850	70900	75750	75350	76000	79350	67050
Upper Quartile	31800	33300	34950	36650	38800	40150	42750	43750	45750	49350	54550	59300	62100	63150	65850	65700	66900	67550	58000
Median	29850	31100	32500	34150	35750	36900	38800	39950	41750	44600	48300	52150	54700	55650	57550	57500	58050	58600	48500
Lower Quartile	27850	2[illegible]050	30350	31600	33200	34350	35800	36600	38000	39950	43200	45900	47650	49000	50650	50500	50800	51100	39800
Lower Decile	26100	27200	28200	29450	30900	32150	32600	33800	34600	36350	38750	40900	42350	44050	44750	45150	44350	45200	33550
Mean	30000	31750	32900	34450	36650	37650	39450	40650	42250	45100	49250	53150	55600	56800	59700	59550	60150	61250	49950
Supporting Data																			
Total Number	348	364	478	544	572	583	633	675	715	1820	1925	1953	1702	1454	1170	1050	913	1515	18414
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	5	2	13	26
Less Than $22000	3	1	4	3	1	0	2	1	0	1	0	0	0	1	0	1	1	0	19

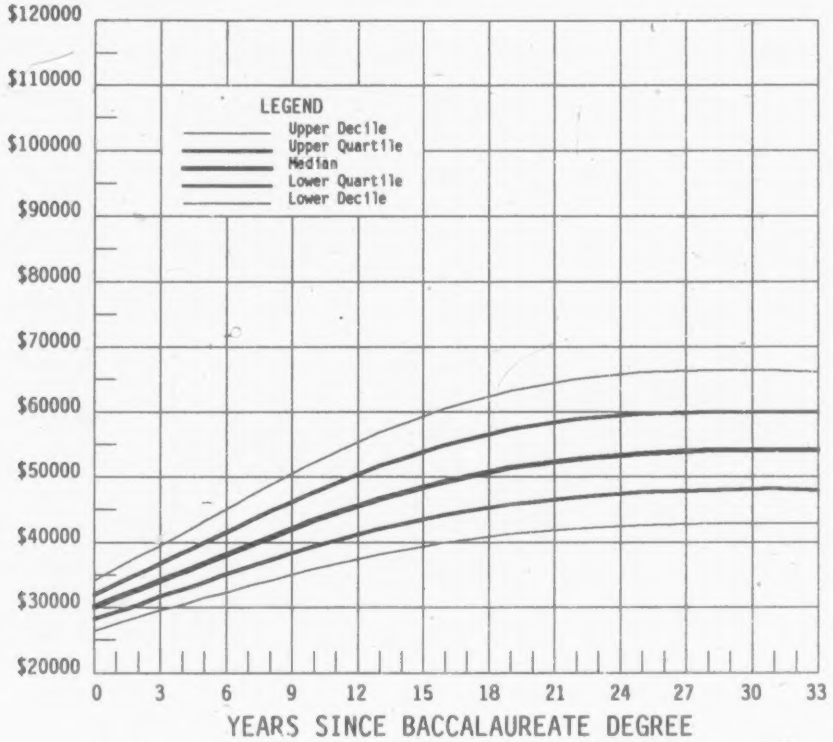
SALARY CURVES FOR ENGINEERS IN CONSULTING & ENGINEERING SERVICES – SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSULTING & ENGINEERING SERVICES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	57150	57800	58600	59500	60600	63000	67200	71600	75950	79800	82950	85300	86850	88300	78600
Upper Quartile	0	0	0	0	46600	48350	50050	51750	53400	56700	61200	65200	68500	71100	73000	74350	75250	76250	69100
Median	0	0	0	0	40550	42300	44050	45750	47500	50800	55350	59150	62100	64200	65500	66200	66450	66300	61200
Lower Quartile	0	0	0	0	36400	38000	39550	41100	42600	45550	49500	52800	55300	57050	58050	58550	58650	58350	53450
Lower Decile	0	0	0	0	32300	33750	35250	36700	38100	40850	44550	47600	49800	51200	51950	52200	52150	51550	46450
Mean	0	0	0	0	42100	43750	45350	46900	48500	51550	55750	59450	62500	64900	66600	67800	68550	69300	62300
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	61050	60200	55800	59200	61400	61700	67200	72500	76600	77450	85550	84500	85900	88400	78600
Upper Quartile	0	0	0	0	50750	45100	47600	51500	53950	56850	61800	65650	68600	69400	73650	73750	74650	77100	69100
Median	0	0	0	0	40250	40250	43050	45350	48350	50800	56200	59600	61900	62800	65850	65500	65700	67300	61200
Lower Quartile	0	0	0	0	36750	35750	40000	41150	42250	45850	49400	53450	55550	55600	58750	58100	57700	59100	53450
Lower Decile	0	0	0	0	34200	34300	36500	34400	38650	40050	44450	47950	50300	50200	52550	52150	52450	51350	46450
Mean	0	0	0	0	44350	43000	44450	46650	48850	51050	55900	59950	62800	63200	67900	67800	67800	69600	62300
Supporting Data																			
Total Number	1	4	9	10	22	29	52	54	82	246	484	689	644	546	457	392	348	599	4668
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	3	2	9	18
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3

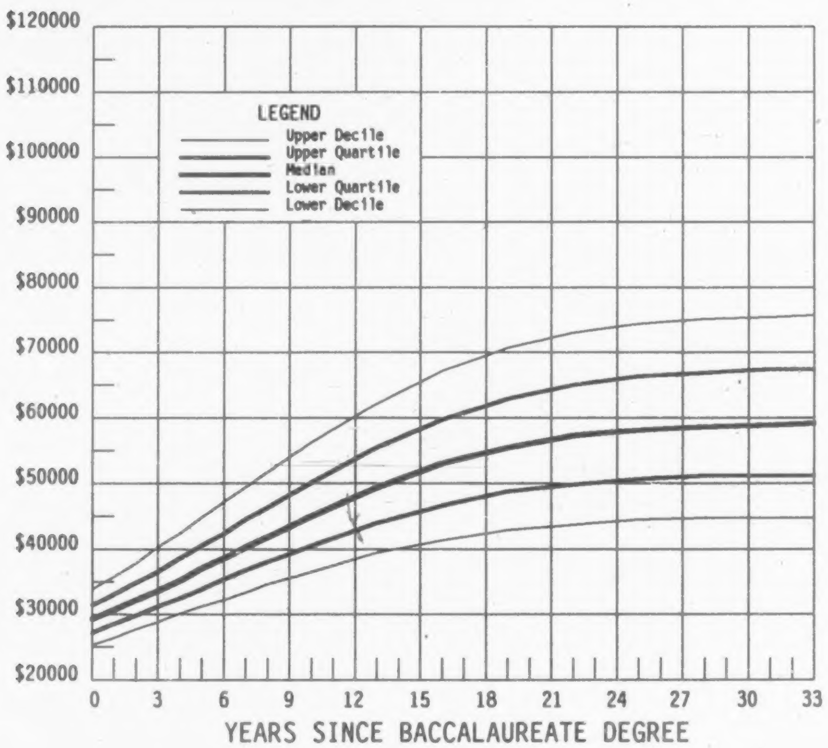
SALARY CURVES FOR ENGINEERS IN CONSULTING & ENGINEERING SERVICES NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSULTING & ENGINEERING SERVICES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34250	36000	37800	39600	41400	43250	45100	46900	48700	52150	56750	60500	63250	65050	66050	66400	66350	65650	59450
Upper Quartile	32000	33550	35150	36750	38350	39950	41550	43150	44700	47650	51650	54850	57250	58850	59700	60100	60100	59650	52600
Median	30000	31350	32750	34100	35500	36850	38200	39550	40850	43350	46650	49350	51400	52800	53650	54050	54150	54000	44900
Lower Quartile	28200	29350	30500	31700	32850	34000	35150	36250	37300	39350	42050	44200	45850	46950	47650	48000	48150	48050	37550
Lower Decile	26500	27500	28500	29500	30500	31450	32400	33350	34250	35900	38100	39900	41200	42100	42650	42900	43000	42950	32400
Mean	30400	31750	33100	34500	35850	37250	38600	39950	41250	43750	47100	49850	52000	53450	54400	54900	55100	55000	45800
Raw (Unsmoothed) Statistics																			
Upper Decile	33500	35550	37450	39250	42300	43500	46250	47450	49000	52750	56650	59500	62300	63500	65050	66050	68450	67000	59450
Upper Quartile	31800	33250	34900	36650	38550	40000	42200	43250	44750	48200	51450	54400	56900	58250	59050	59700	60950	60450	52600
Median	29850	31100	32500	34150	35600	36750	38450	39600	41300	43850	46500	49000	50850	52100	53750	53800	54200	54800	44900
Lower Quartile	27850	29050	30400	31550	33150	34300	35550	36450	37600	39550	42000	43750	45000	47000	47650	48100	48050	48600	37550
Lower Decile	26100	27150	28300	29400	30900	32100	32500	33750	34350	36150	38050	39050	40700	42400	42950	42950	42500	43500	32400
Mean	29900	31650	32900	34400	36300	37400	39000	40150	41400	44150	47000	49450	51250	52900	54450	54650	55450	55800	45800
Supporting Data																			
Total Number	347	360	469	534	550	554	581	621	633	1574	1441	1264	1058	908	713	658	565	916	13746
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	8
Less Than $22000	3	1	2	3	1	0	2	1	0	1	0	0	0	0	0	1	1	0	16

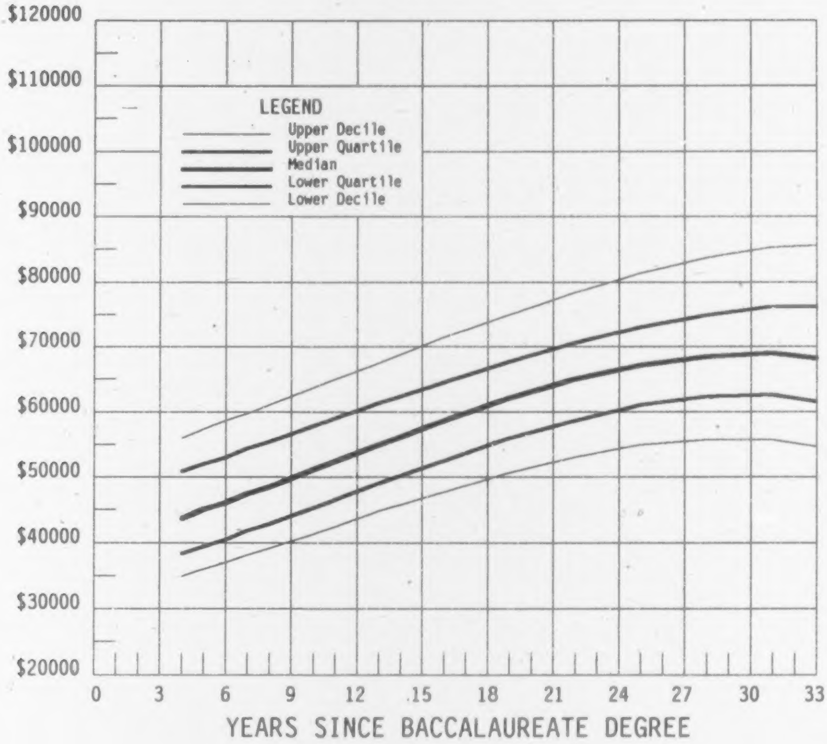
SALARY CURVES FOR ENGINEERS IN CONSULTING
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSULTING

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33750	35800	38000	40200	42450	44800	47100	49450	51750	56200	62200	67100	70650	73050	74450	75200	75550	75750	67000
Upper Quartile	31450	33100	34850	36650	38550	40500	42450	44400	46400	50200	55450	59750	62950	65100	66350	67050	67350	67500	58600
Median	29250	30650	32150	33700	35300	36950	38600	40250	41900	45100	49400	52950	55500	57250	58250	58800	59050	59200	49000
Lower Quartile	27200	28450	29800	31150	32550	33950	35350	36700	38100	40650	44050	46750	48700	49950	50700	51100	51300	51400	40050
Lower Decile	25300	26450	27600	28800	30000	31150	32350	33450	34600	36650	39350	41450	42900	43850	44450	44700	44850	44900	33050
Mean	29850	31250	32750	34300	35900	37550	39200	40900	42550	45850	50250	53850	56500	58300	59350	59900	60150	60300	50050
Raw (Unsmoothed) Statistics																			
Upper Decile	33250	36000	38400	39750	43750	44050	48300	49350	51300	56050	62300	66250	69800	71250	75950	72500	75800	81500	67000
Upper Quartile	31450	33250	34750	36500	38750	40050	43400	43850	46050	50050	56000	60250	62800	63850	66100	64950	67400	69650	58600
Median	29500	30900	31700	33450	35200	36450	39300	40200	42150	45100	49300	53500	55600	56400	57950	56900	58950	60750	49000
Lower Quartile	27250	28850	29400	30750	32800	33800	35600	36700	38600	40350	44000	47450	48700	48900	50800	50050	51400	52300	40050
Lower Decile	25250	26900	27200	28450	30500	31250	32000	33650	34950	36400	39500	41650	42550	43800	44300	44400	44350	45750	33050
Mean	29500	31850	32500	34000	36550	37450	39800	40650	42700	45550	50200	54000	56250	57000	59600	58200	60550	63050	50050
Supporting Data																			
Total Number	197	192	242	276	266	268	312	364	385	983	1038	1151	936	729	544	443	404	662	9392
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	8	13
Less Than $22000	3	0	4	2	1	0	2	1	0	1	0	0	0	1	0	0	0	0	15

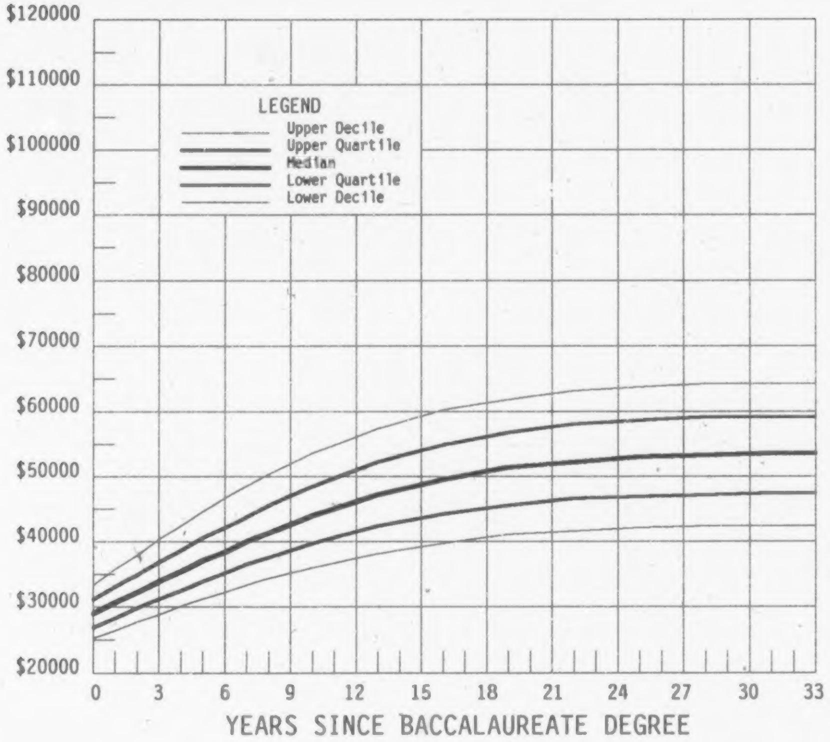
SALARY CURVES FOR ENGINEERS IN CONSULTING SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSULTING, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	56050	57300	58550	59800	61100	63700	67550	71400	75050	78400	81300	83650	85350	86000	77600
Upper Quartile	0	0	0	0	50900	52000	53150	54300	55450	57800	61300	64650	67850	70700	73150	75000	76250	75900	68550
Median	0	0	0	0	43750	44950	46150	47400	48650	51200	55000	58700	62100	65000	67200	68600	69050	65550	61800
Lower Quartile	0	0	0	0	38300	39400	40600	41750	42950	45400	49050	52650	55950	58800	61000	62300	62600	58750	54650
Lower Decile	0	0	0	0	35050	36100	37150	38200	39250	41450	44700	47850	50750	53100	54850	55750	55800	51700	47200
Mean	0	0	0	0	44650	45850	47000	48200	49400	51850	55550	59150	62500	65500	67900	69600	70400	68300	62350
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	62400	61800	56400	55800	62650	62600	67150	71550	76150	76350	83900	82700	85050	85950	77600
Upper Quartile	0	0	0	0	60000	45100	48100	52250	56000	58300	62500	65150	68300	69700	74400	71650	74500	76950	68550
Median	0	0	0	0	47000	39100	42950	43500	45500	51350	57200	60350	62400	63750	66150	65100	66750	67050	61800
Lower Quartile	0	0	0	0	36500	35300	38950	40500	40600	44700	50150	54750	56950	57700	59400	58200	60150	60400	54650
Lower Decile	0	0	0	0	35200	34050	35800	36400	38150	39000	45500	50400	52000	51650	53500	52550	52950	53150	47200
Mean	0	0	0	0	46300	42800	44500	45750	48400	51200	56550	60400	63500	63850	68200	66250	68500	69500	62350
Supporting Data																			
Total Number	1	3	5	8	12	21	29	22	44	137	290	465	395	307	236	181	179	349	2684
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	5	10
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3

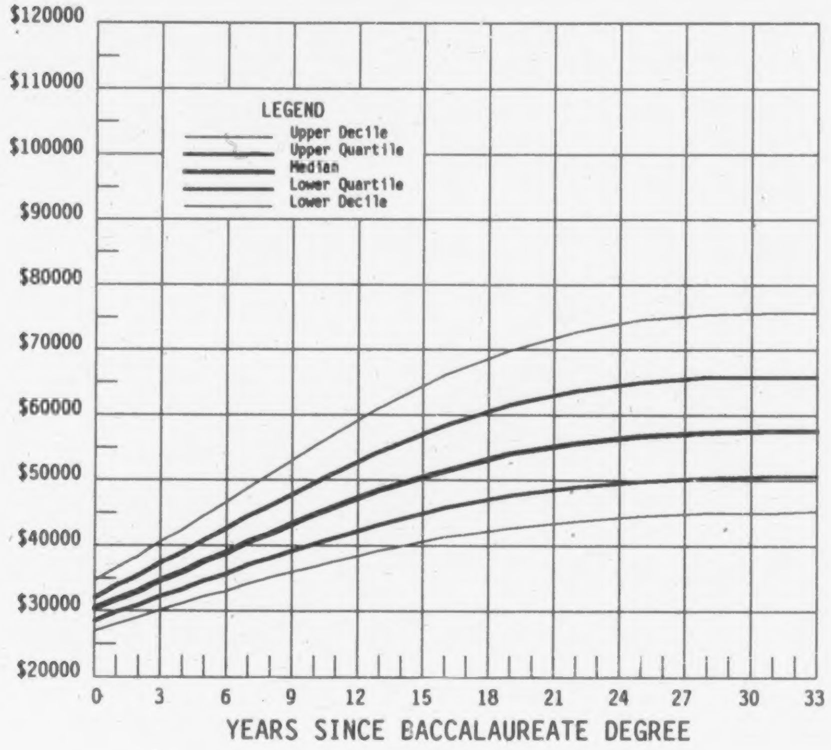
SALARY CURVES FOR ENGINEERS IN CONSULTING
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: CONSULTING, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	33350	35700	38000	40250	42450	44550	46600	48500	50300	53500	57400	60150	62000	63200	63850	64200	64350	64450	58600
Upper Quartile	31200	33050	34950	36800	38650	40450	42200	43850	45500	48450	52150	54900	56850	58050	58750	59150	59300	59400	52150
Median	29000	30650	32250	33850	35450	37000	38500	40000	41400	43950	47200	49650	51350	52400	53050	53400	53550	53600	44750
Lower Quartile	27000	28400	29850	31250	32650	33950	35250	36500	37650	39800	42400	44350	45700	46550	47000	47300	47400	47450	37350
Lower Decile	25250	26500	27700	28900	30050	31200	32300	33300	34300	36100	38250	39850	40950	41650	42050	42300	42400	42450	31650
Mean	29450	31100	32700	34350	35950	37500	39000	40450	41850	44400	47550	49950	51550	52600	53250	53550	53700	53750	45150
Raw (Unsmoothed) Statistics																			
Upper Decile	33200	35900	38300	39700	43000	43450	47500	48600	49900	53700	57750	59300	61800	62600	63650	63350	65650	66400	58600
Upper Quartile	31450	33250	34750	36400	38450	39800	42900	43600	45450	48950	52450	54700	56500	57600	58450	58200	59750	60300	52150
Median	29450	30900	31750	33400	35000	36300	39000	40000	41900	44550	47150	49850	50900	51200	53500	53000	53850	53950	44750
Lower Quartile	27200	28800	29500	30700	32700	33600	35150	36600	38350	39900	42650	44550	44900	46300	46750	46850	47650	48150	37350
Lower Decile	25250	26900	27500	28400	30400	31150	31800	33450	34750	36200	38600	39050	40900	41850	42250	41800	42200	43300	31650
Mean	29350	31700	32550	33900	36100	37000	39300	40350	42000	44650	47750	49650	50950	52050	53050	52650	54200	55900	45150
Supporting Data																			
Total Number	196	189	237	268	254	247	283	342	341	846	748	686	541	422	308	262	225	313	6708
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Less Than $22000	3	0	2	2	1	0	2	1	0	1	0	0	0	0	0	0	0	0	12

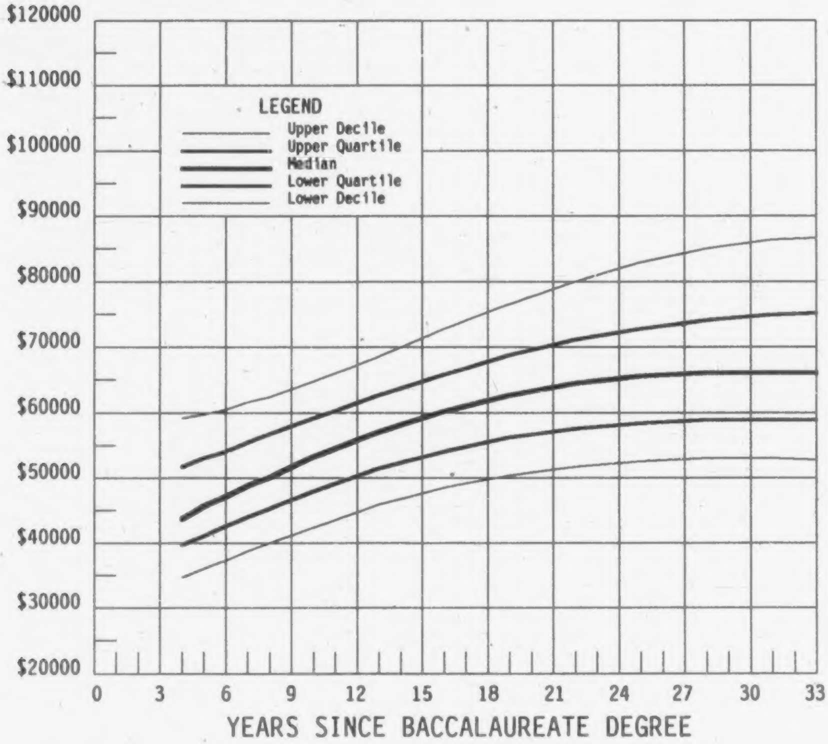
SALARY CURVES FOR ENGINEERS IN OTHER ENGINEERING SERVICES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER ENGINEERING SERVICES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34550	36450	38400	40450	42500	44600	46700	48850	50950	55150	61000	66050	70000	72800	74550	75450	75750	75450	66800
Upper Quartile	32100	33800	35500	37250	39050	40850	42650	44450	46250	49700	54500	58500	61650	63800	65100	65750	65950	65600	58000
Median	30300	31700	33150	34650	36100	37600	39050	40500	41950	44700	48450	51600	54050	55750	56850	57450	57650	57600	48950
Lower Quartile	28550	29750	31000	32200	33400	34650	35850	37000	38150	40350	43300	45750	47700	49050	49950	50500	50750	50850	40600
Lower Decile	27050	28100	29100	30150	31150	32200	33150	34150	35100	36850	39250	41200	42700	43800	44500	44950	45200	45300	34500
Mean	30850	32300	33800	35250	36750	38250	39750	41250	42700	45550	49450	52800	55400	57300	58600	59350	59750	59900	50300
Raw (Unsmoothed) Statistics																			
Upper Decile	33650	35650	37900	40150	44100	45300	47900	49450	51400	54900	60850	66050	69850	70500	75150	74400	75550	77400	66800
Upper Quartile	32300	33350	35350	37100	39750	40750	43400	44100	46050	49450	54600	59050	61600	62950	65450	65200	66000	65950	58000
Median	30350	31400	33150	34800	36450	37600	39200	40200	41900	44600	48350	51950	54250	55300	57100	57200	57400	57800	48950
Lower Quartile	28350	29400	31050	32300	33950	34850	36200	36900	38050	40050	43350	45850	47550	48900	50500	50600	50400	50900	40600
Lower Decile	26600	27600	29250	30250	31800	32750	33350	34300	34900	36750	38950	41050	42450	44200	45100	45400	44200	45350	34500
Mean	30550	32100	33750	35200	37550	38500	40150	41150	42600	45250	49350	53100	55400	56600	59400	59350	59450	60000	50300
Supporting Data																			
Total Number	245	274	337	369	415	419	453	530	565	1371	1520	1499	1324	1216	953	882	719	1206	14297
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	0	5	13
Less Than $22000	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	6

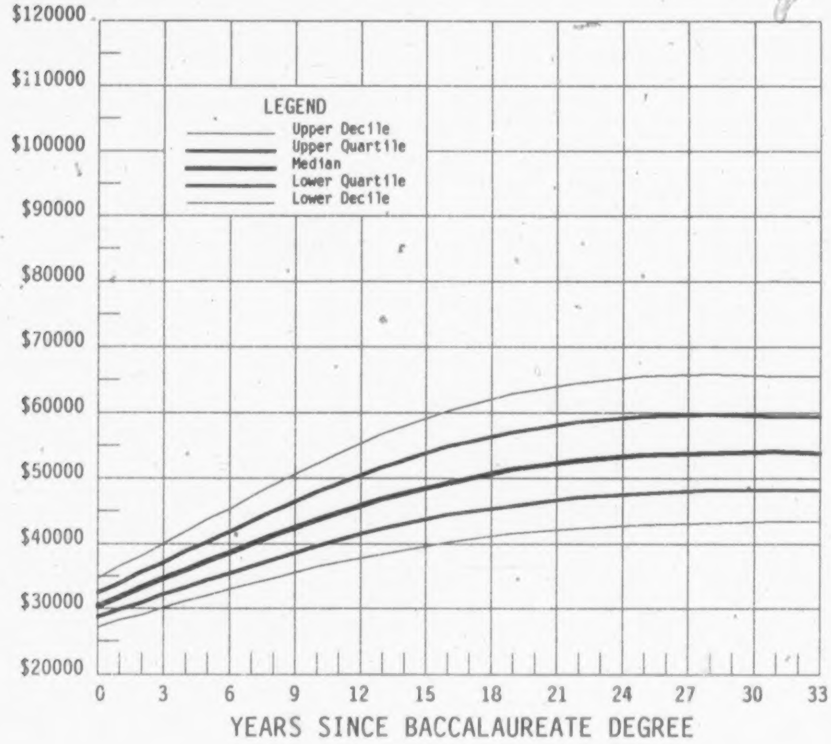
SALARY CURVES FOR ENGINEERS IN OTHER ENGINEERING SERVICES SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER ENGINEERING SERVICES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	59300	59850	60600	61500	62500	64750	68650	72700	76650	80100	82950	85050	86400	87650	78800
Upper Quartile	0	0	0	0	51700	52950	54200	55450	56700	59150	62750	66000	68800	71100	72850	74100	74900	75600	69750
Median	0	0	0	0	43850	45500	47100	48700	50250	53200	57150	60350	62800	64450	65500	66050	66200	66050	62200
Lower Quartile	0	0	0	0	39700	41150	42550	43950	45350	47900	51350	54100	56150	57600	58450	58850	59000	58800	54950
Lower Decile	0	0	0	0	34550	35900	37250	38600	39900	42400	45750	48450	50450	51800	52550	52950	53000	52700	48250
Mean	0	0	0	0	45100	46550	48050	49500	50950	53650	57400	60600	63250	65250	66700	67750	68400	69050	63400
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	62000	63400	57200	64600	62950	62650	68400	73750	77450	77700	86700	84000	85700	87150	78800
Upper Quartile	0	0	0	0	57000	59500	49450	53750	58250	57750	62800	66700	69850	69750	73700	72850	74700	76000	69750
Median	0	0	0	0	47750	45500	43850	46850	51750	52850	57700	60700	62900	63450	66400	65300	65450	66700	62200
Lower Quartile	0	0	0	0	39300	41250	41500	43250	47300	47900	51050	54500	56350	56500	59600	58650	58100	59150	54950
Lower Decile	0	0	0	0	33000	38450	38100	33850	41800	43900	45850	47950	50700	50650	53700	53100	53300	52500	48250
Mean	0	0	0	0	47300	49950	46000	48650	52500	52700	57350	60950	63600	63900	68400	67950	67550	69000	63400
Supporting Data																			
Total Number	1	2	5	3	15	13	31	37	51	148	321	450	432	420	339	308	246	420	3242
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	8
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

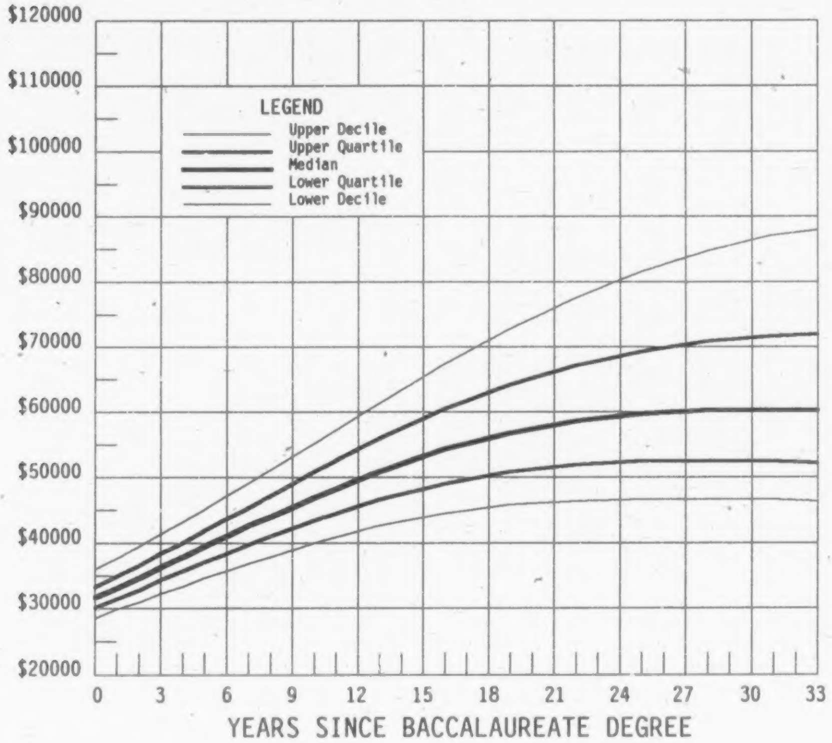
SALARY CURVES FOR ENGINEERS IN OTHER ENGINEERING SERVICES NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: OTHER ENGINEERING SERVICES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	34750	36450	38250	40050	41850	43650	45450	47250	49000	52350	56800	60400	63000	64650	65500	65800	65700	65000	59400
Upper Quartile	32450	34000	35600	37200	38800	40400	41950	43500	45050	47950	51800	54900	57150	58600	59350	59650	59600	59050	53100
Median	30500	31850	33200	34600	35950	37300	38650	39950	41200	43650	46850	49450	51400	52750	53500	53900	54000	53750	45750
Lower Quartile	28750	29900	31050	32200	33350	34450	35550	36650	37700	39650	42300	44400	46000	47100	47750	48150	48300	48250	38550
Lower Decile	27200	28200	29200	30150	31150	32100	33000	33900	34750	36400	38500	40200	41500	42400	42950	43250	43400	43350	33350
Mean	31050	32400	33750	35100	36450	37800	39100	40400	41700	44100	47350	50000	52000	53350	54250	54700	54850	54750	46500
Raw (Unsmoothed) Statistics																			
Upper Decile	33600	35500	37700	40050	43300	44500	47000	47600	49150	52950	56500	59400	61750	63250	64450	66000	68200	66050	59400
Upper Quartile	32300	33300	35300	37050	39500	40550	43000	43500	44900	48300	51650	54650	56800	57900	58650	59400	60300	59800	53100
Median	30300	31350	33100	34750	36350	37450	38800	39900	41400	43900	46800	49400	51050	51950	53550	53850	53800	54500	45750
Lower Quartile	28350	29400	31000	32300	33900	34750	36050	36800	37700	39650	42250	44200	45400	47050	47900	48250	48000	48700	38550
Lower Decile	26600	27600	29200	30250	31800	32700	33200	34300	34650	36550	38300	39600	41050	42650	43450	43450	42550	43850	33350
Mean	30450	31950	33550	35150	37150	38150	39700	40550	41600	44350	47200	49700	51400	52750	54450	54750	55250	55200	46500
Supporting Data																			
Total Number	244	272	332	366	400	406	422	493	514	1223	1199	1049	892	796	614	574	473	786	11055
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	5
Less Than $22000	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	6

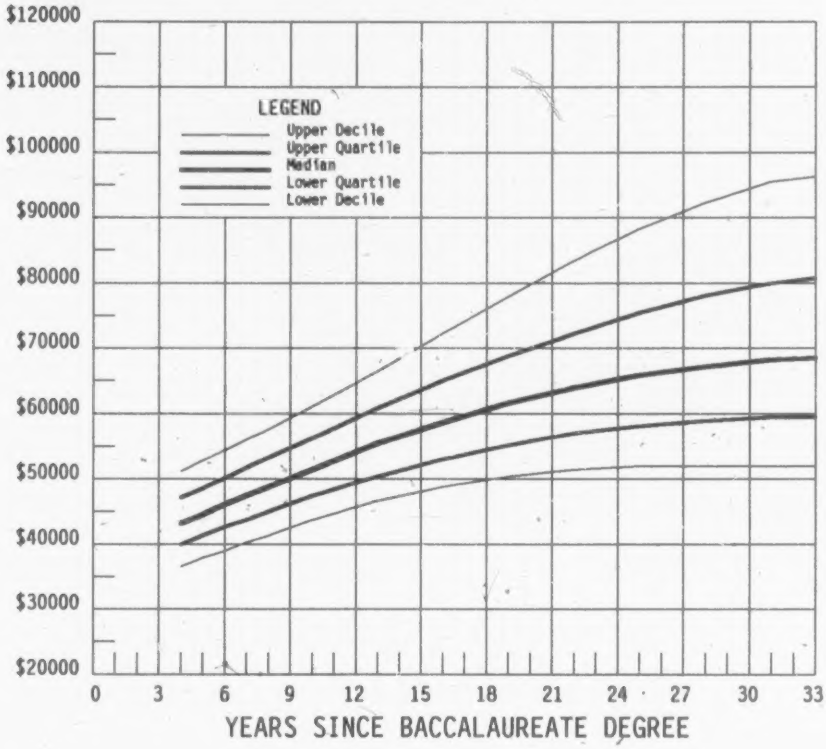
SALARY CURVES FOR ENGINEERS IN ELECTRIC & GAS UTILITIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC & GAS UTILITIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35950	37700	39500	41350	43250	45150	47150	49150	51200	55300	61450	67350	72750	77550	81500	84700	87150	90500	66850
Upper Quartile	33200	34850	36550	38300	40050	41850	43650	45450	47250	50850	55900	60450	64300	67250	69450	70950	71850	72700	56700
Median	31650	33150	34700	36250	37850	39400	41000	42550	44100	47050	51000	54350	56850	58600	59700	60250	60400	60200	48400
Lower Quartile	30150	31550	32900	34300	35700	37100	38450	39800	41100	43500	46700	49150	50900	52000	52500	52650	52550	51950	41350
Lower Decile	28550	29800	31000	32200	33450	34600	35800	36900	38000	40000	42550	44450	45750	46450	46750	46750	46600	46000	34900
Mean	32300	33750	35250	36750	38250	39800	41350	42850	44400	47400	51650	55400	58600	61150	63100	64450	65400	66400	50600
Raw (Unsmoothed) Statistics																			
Upper Decile	33800	37650	40000	40700	44200	46650	48050	49500	51650	55100	61350	66100	71550	78250	81250	86850	84700	94050	66850
Upper Quartile	32400	34200	35900	37900	40550	42700	45300	46400	47600	51250	55300	59550	62950	66100	69100	73350	71400	75600	56700
Median	31250	32650	34000	35600	38450	39600	42400	43650	44600	47300	50700	53550	55800	57950	59250	61700	59950	62250	48400
Lower Quartile	30350	30900	32350	34000	35400	37000	39500	41200	41450	43900	46100	48700	50450	51500	52000	53800	51350	53650	41350
Lower Decile	29000	29200	30650	32150	32550	34250	37000	38200	38450	40050	41700	44400	45450	46450	46650	47500	46350	46400	34900
Mean	31800	33400	34850	36200	38600	40000	42400	43800	44800	47600	51200	54850	57700	61100	62550	65450	64450	68600	50600
Supporting Data																			
Total Number	225	333	363	432	419	426	609	622	569	1387	1283	1451	1082	665	525	377	359	534	11661
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	2	8	6	4	7	27	55
Less Than $22000	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3

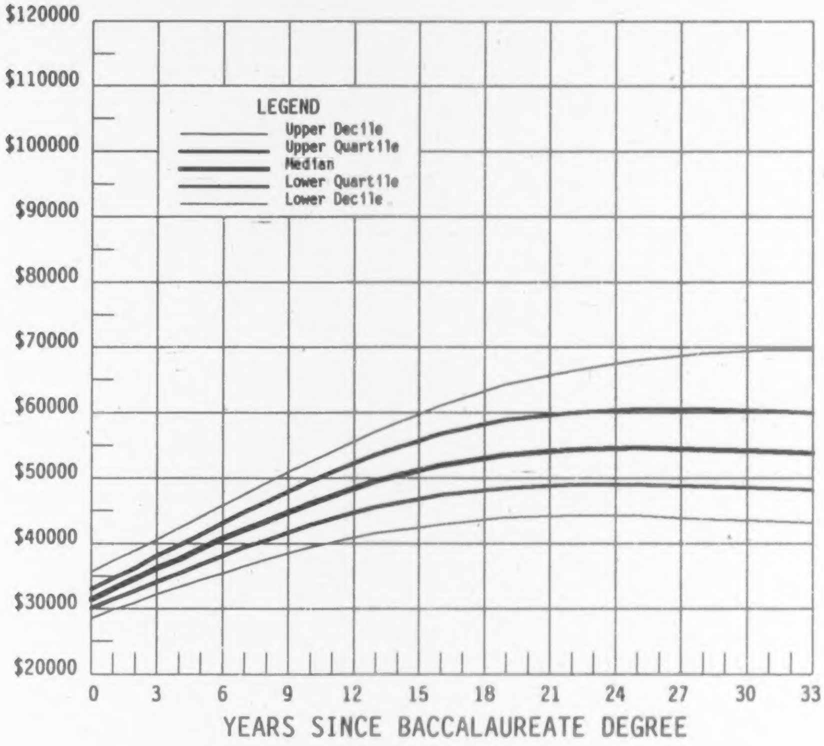
SALARY CURVES FOR ENGINEERS IN ELECTRIC & GAS UTILITIES SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC & GAS UTILITIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51250	52750	54300	55900	57550	61000	66500	72250	77950	83400	88300	92350	95450	99150	79800
Upper Quartile	0	0	0	0	47100	48650	50150	51700	53200	56250	60750	65000	68900	72400	75500	78050	80100	83300	68400
Median	0	0	0	0	43250	44650	46100	47500	48900	51600	55400	58750	61650	64000	65900	67300	68300	69650	59150
Lower Quartile	0	0	0	0	40050	41350	42600	43850	45050	47400	50500	53150	55300	56950	58100	58900	59400	59900	51700
Lower Decile	0	0	0	0	36500	37750	39050	40250	41450	43650	46550	48800	50350	51350	51900	52050	52000	51600	45950
Mean	0	0	0	0	43700	45100	46550	48000	49400	52250	56300	60100	63500	66450	68950	71000	72600	74900	62050
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	56400	49100	53000	55550	58650	61700	67650	71050	76450	87050	878[illegible]	93150	94500	99000	79800
Upper Quartile	0	0	0	0	51000	46000	49100	51250	53000	56850	61900	64000	69150	72950	74500	78800	77800	84750	68400
Median	0	0	0	0	43500	42350	45500	47700	48900	52350	56300	58550	60950	63350	66400	67700	65900	71400	59150
Lower Quartile	0	0	0	0	39000	39250	41900	44550	45600	48300	51300	52600	55000	56300	58100	60250	56950	61350	51700
Lower Decile	0	0	0	0	31600	36900	39350	41450	41850	44750	47300	48100	50350	50450	51400	53550	49100	53500	45950
Mean	0	0	0	0	44700	42450	46150	48450	49600	52900	57050	59500	62950	67400	68500	71450	70000	76550	62050
Supporting Data																			
Total Number	1	4	15	22	28	48	70	73	80	303	389	586	480	315	259	212	196	288	3369
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	1	7	3	3	5	17	37
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

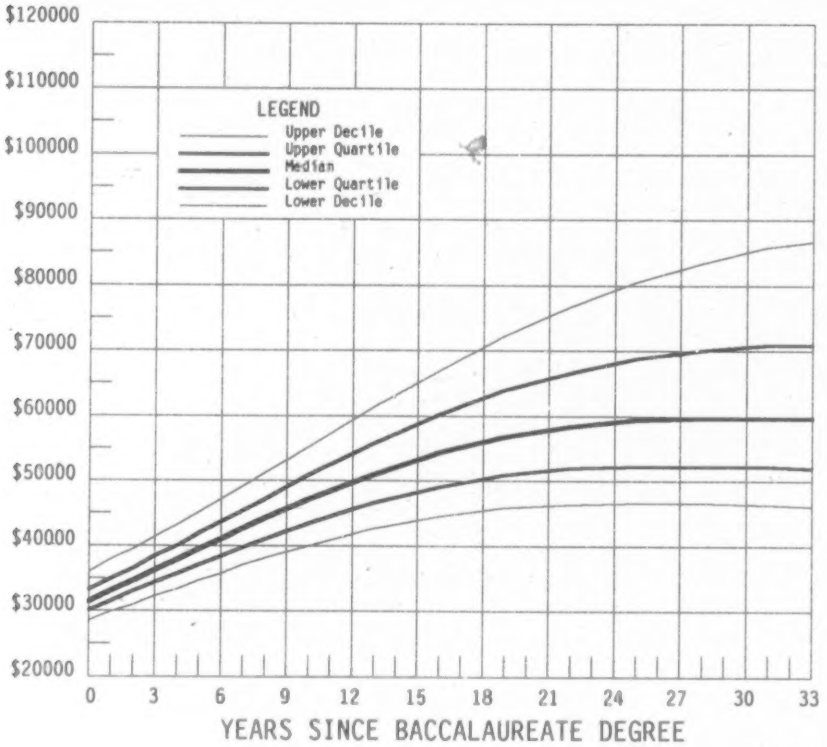
SALARY CURVES FOR ENGINEERS IN ELECTRIC & GAS UTILITIES NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC & GAS UTILITIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35600	37250	38950	40650	42400	44100	45850	47550	49250	52550	57100	61000	64150	66450	68050	69000	69550	69850	57650
Upper Quartile	33000	34650	36350	38050	39750	41450	43150	44850	46450	49550	53550	56700	58850	60100	60650	60650	60350	59350	51450
Median	31500	33050	34600	36150	37650	39200	40700	42150	43600	46200	49600	52050	53700	54500	54700	54500	54100	53050	45150
Lower Quartile	30100	31450	32850	34200	35550	36900	38200	39450	40650	42850	45550	47500	48650	49150	49150	48850	48400	47350	38850
Lower Decile	28550	29750	30950	32150	33300	34450	35550	36600	37600	39400	41600	43050	43900	44200	44150	43800	43400	42450	33450
Mean	32100	33500	34950	36400	37850	39300	40700	42100	43500	46100	49550	52350	54450	55900	56750	57150	57300	57050	45950
Raw (Unsmoothed) Statistics																			
Upper Decile	33800	36600	39250	40350	43200	46100	46950	48400	49850	52400	55700	59950	63400	66000	67150	71000	71100	72950	57650
Upper Quartile	32400	34050	35750	37700	40300	42150	44800	45850	46600	49700	52800	55550	57750	59550	60050	61500	61950	61850	51450
Median	31250	32600	33950	35500	38300	39350	42150	43250	44100	46250	48850	51300	52600	54400	54400	54950	54400	55300	45150
Lower Quartile	30350	30900	32300	33950	35300	36750	39250	41000	41150	42950	44700	47000	47950	48950	49150	49500	48800	48500	38850
Lower Decile	29000	29150	30650	32100	32550	34150	36750	38050	38150	39250	40600	42600	43900	44850	44650	43850	44550	42100	33450
Mean	31700	33000	34450	36050	38150	39700	41900	43200	44000	46150	48650	51650	53550	55450	56800	57700	57800	59300	45950
Supporting Data																			
Total Number	224	329	348	410	391	378	539	549	489	1084	894	865	602	350	266	165	163	246	8292
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	2	10	18
Less Than $22000	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3

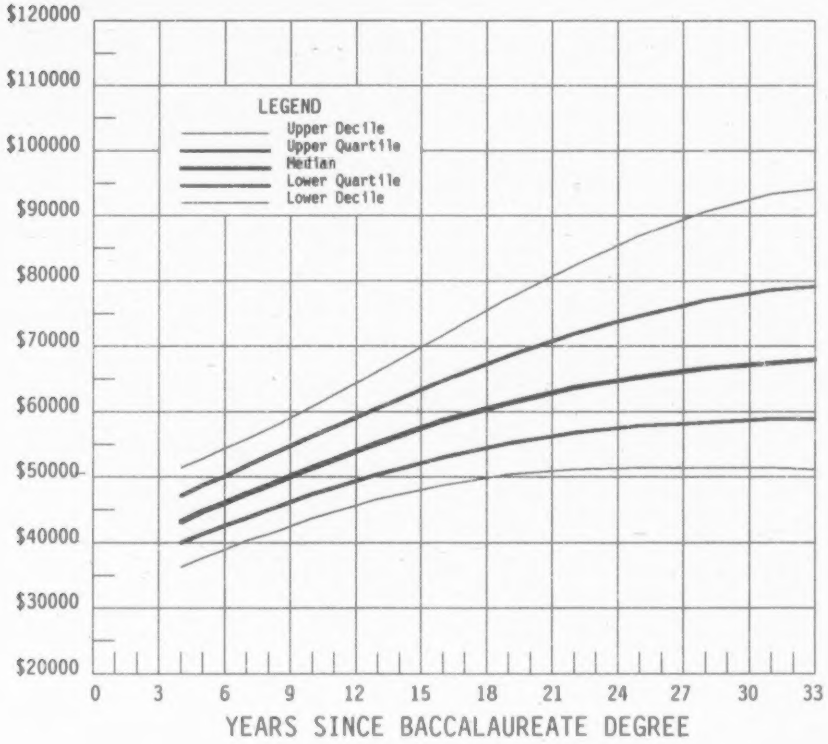
SALARY CURVES FOR ENGINEERS IN ELECTRIC UTILITIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC UTILITIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	36000	37750	39550	41400	43250	45200	47150	49150	51150	55200	61250	67000	72250	76800	80600	83550	85800	88850	66250
Upper Quartile	33200	34850	36550	38300	40050	41850	43650	45450	47250	50850	55850	60300	64000	66800	68800	70100	70900	71500	56450
Median	31600	33150	34700	36250	37850	39450	41050	42600	44150	47100	51050	54300	56750	58350	59350	59750	59850	59500	48400
Lower Quartile	30150	31550	32950	34350	35750	37150	38500	39850	41150	43600	46750	49200	50900	51900	52300	52400	52200	51550	41350
Lower Decile	28550	29800	31000	32250	33450	34650	35850	36950	38050	40100	42600	44500	45750	46400	46650	46600	46350	45650	34850
Mean	32300	33750	35250	36750	38300	39800	41350	42900	44400	47400	51600	55250	58350	60750	62550	63750	64550	65350	50350
Raw (Unsmoothed) Statistics																			
Upper Decile	33800	37950	40150	40750	44000	46550	48150	49400	51600	54950	61250	65850	70950	77750	81100	85700	83550	91450	66250
Upper Quartile	32350	34200	35950	37850	40550	42650	45350	46400	47500	51200	55300	59450	62550	65850	68700	72650	70550	74000	56450
Median	31250	32650	33950	35600	38500	39550	42500	43700	44600	47300	50750	53550	55600	57850	59050	61300	59450	61350	48400
Lower Quartile	30350	31000	32350	34000	35400	37000	39600	41300	41450	43900	46200	48800	50400	51450	51900	53600	51000	53100	41350
Lower Decile	28950	29350	30700	32150	32450	34200	37100	38400	38450	40050	41900	44500	45400	46400	46650	47300	46000	46050	34850
Mean	31800	33450	34900	36200	38550	39950	42500	43900	44750	47550	51250	54700	57300	60800	62500	64900	63700	67150	50350
Supporting Data																			
Total Number	216	322	347	413	403	410	578	591	537	1326	1231	1410	1029	643	502	350	335	486	11129
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	6	6	3	6	22	44
Less Than $22000	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3

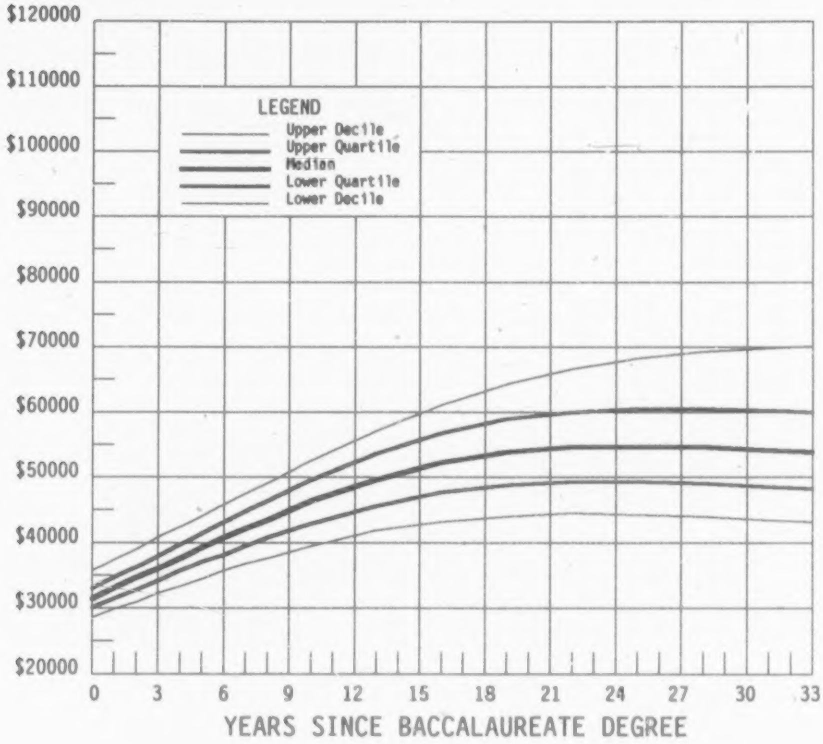
SALARY CURVES FOR ENGINEERS IN ELECTRIC UTILITIES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC UTILITIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	51550	52900	54350	55850	57450	60750	66100	71750	77300	82500	87050	90750	93450	96350	78300
Upper Quartile	0	0	0	0	47150	48700	50200	51750	53250	56250	60650	64800	68550	71900	74700	76950	78650	80750	67700
Median	0	0	0	0	43250	44700	46100	47500	48900	51600	55300	58600	61400	63650	65400	66700	67600	68700	58800
Lower Quartile	0	0	0	0	40000	41300	42600	43850	45050	47400	50500	53150	55200	56750	57800	58500	58900	59200	51550
Lower Decile	0	0	0	0	36300	37650	38950	40200	41400	43700	46600	48800	50300	51150	51550	51550	51350	50750	45850
Mean	0	0	0	0	43750	45150	46600	48000	49400	52200	56150	59800	63050	65800	68100	69950	71350	73400	61400
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	56400	49300	53300	54950	58950	61350	67350	70500	75300	86350	87900	92900	92300	94700	78300
Upper Quartile	0	0	0	0	51000	46350	49150	51250	53300	56650	61800	63800	68500	72750	74300	78050	76300	81800	67700
Median	0	0	0	0	43500	42650	45250	47750	49000	52300	56300	58400	60500	63200	66000	67250	65150	70400	58800
Lower Quartile	0	0	0	0	39000	39350	41750	44350	45800	48300	51350	52600	54700	56250	57800	59950	56450	60650	51550
Lower Decile	0	0	0	0	31600	36950	39300	41250	42400	44600	47300	48150	50200	50450	51100	53000	48400	52700	45850
Mean	0	0	0	0	44700	42650	46100	48400	49950	52750	57000	59200	62100	66900	68300	70750	68950	74500	61400
Supporting Data																			
Total Number	1	4	15	21	28	44	67	67	73	282	370	563	444	300	244	191	177	249	3140
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	2	4	12	26
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

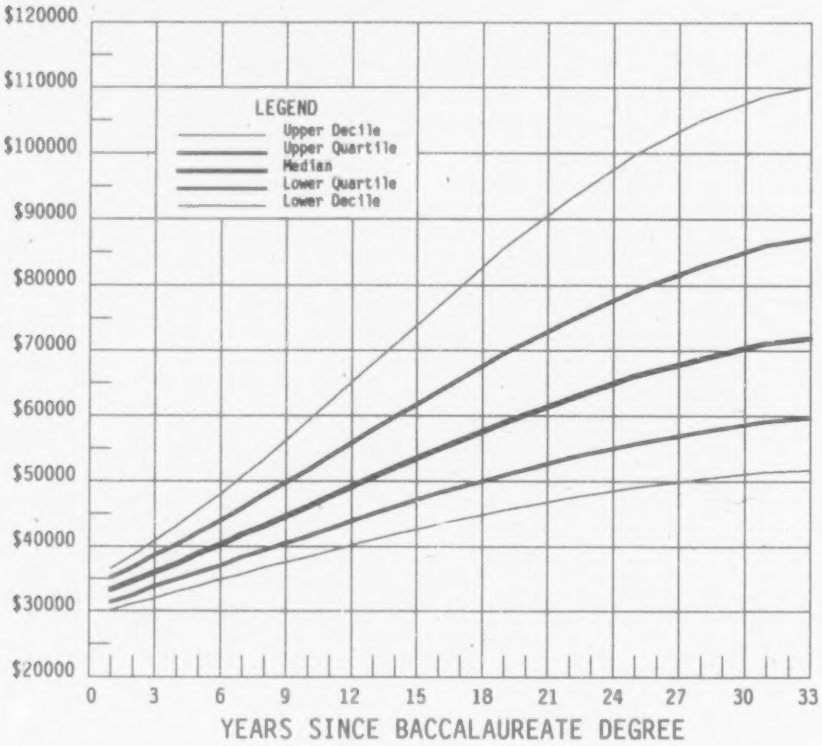
SALARY CURVES FOR ENGINEERS IN ELECTRIC UTILITIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: ELECTRIC UTILITIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	35700	37300	39000	40700	42400	44100	45850	47550	49200	52500	57050	60950	64150	66550	68200	69300	69900	70350	57700
Upper Quartile	32950	34600	36300	38000	39750	41450	43150	44800	46450	49550	53600	56750	58900	60100	60600	60600	60250	59250	51550
Median	31500	33000	34550	36100	37650	39200	40700	42200	43600	46300	49650	52150	53750	54550	54750	54550	54100	53000	45250
Lower Quartile	30050	31450	32850	34250	35600	36950	38250	39500	40750	42950	45700	47600	48800	49250	49250	48950	48450	47400	38950
Lower Decile	28550	29750	30950	32200	33350	34500	35650	36700	37700	39550	41750	43250	44100	44400	44300	43950	43500	42550	33450
Mean	32100	33500	34950	36400	37850	39300	40750	42150	43500	46100	49600	52400	54550	56000	56850	57250	57400	57200	46050
Raw (Unsmoothed) Statistics																			
Upper Decile	33750	36900	39350	40400	43000	45950	47000	48350	49750	52400	55700	59950	63450	65900	67400	71300	71300	73550	57700
Upper Quartile	32300	34050	35750	37600	40300	42050	44900	45900	46550	49700	52850	55600	57750	59500	60050	61600	62000	61650	51550
Median	31200	32650	33850	35450	38350	39350	42250	43350	44100	46300	48950	51400	52600	54350	54550	55150	54400	55250	45250
Lower Quartile	30350	30950	32300	33900	35300	36700	39400	41150	41100	43050	44900	47150	48050	49050	49250	49750	48700	48550	38950
Lower Decile	28950	29300	30700	32100	32500	34100	36800	38300	38150	39250	41000	42850	44000	44950	44850	43650	44400	42350	33450
Mean	31700	33050	34500	36000	38100	39650	42000	43350	43950	46150	48750	51750	53600	55450	57000	57850	57850	59450	46050
Supporting Data																			
Total Number	215	318	332	392	375	366	511	524	464	1044	861	847	585	343	258	159	158	237	7989
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	2	10	18
Less Than $22000	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3

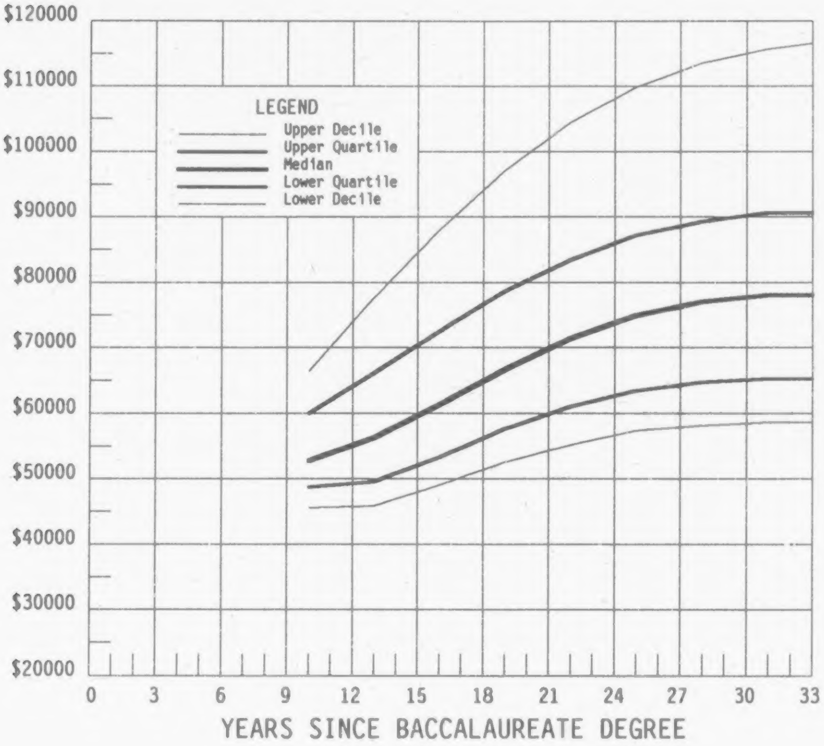
SALARY CURVES FOR ENGINEERS IN GAS UTILITIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: GAS UTILITIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	36400	38550	40750	43100	45550	48100	50750	53450	59100	67950	76900	85500	93200	99750	105000	108850	114000	81700
Upper Quartile	0	35200	36900	38600	40400	42200	44050	45950	47900	51850	57900	63850	69550	74700	79250	83050	86100	90600	63550
Median	0	33350	34650	36050	37450	38850	40300	41750	43250	46200	50650	55000	59050	62800	66100	68900	71150	74650	49150
Lower Quartile	0	31550	32650	33750	34900	36000	37150	38300	39450	41700	45000	48150	51050	53600	55800	57650	59150	61400	40600
Lower Decile	0	30250	31150	32100	33000	33950	34850	35750	36700	38450	41000	43400	45550	47450	49050	50400	51450	53050	35550
Mean	0	33000	34500	36100	37700	39350	41000	42750	44450	48000	53300	58450	63250	67550	71250	74300	76650	80100	55350
Raw (Unsmoothed) Statistics																			
Upper Decile	0	35250	37400	40050	47600	48400	46900	51900	52100	59250	65600	77800	88500	120000	83500	91500	99000	127000	81700
Upper Quartile	0	34150	35750	38600	42500	43400	43700	45950	49000	52600	55000	65000	71800	74000	73650	80600	83350	95000	63550
Median	0	30500	34750	36850	37200	41000	40550	41300	45000	46900	48900	52500	62250	60000	63500	68650	68000	78000	49150
Lower Quartile	0	29100	32000	33900	35350	37350	38200	37500	41750	43250	42500	44950	53200	52250	54100	58350	60000	62300	40600
Lower Decile	0	28450	29050	32450	33600	35600	36450	35100	38200	40300	38600	41050	46300	47300	47450	49550	53300	54200	35550
Mean	0	31350	34050	36300	38950	41100	41150	42250	45050	48950	50050	58600	66200	70850	64200	72500	74800	83050	55350
Supporting Data																			
Total Number	9	11	16	19	16	16	31	31	32	61	52	41	53	22	23	27	24	48	532
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	1	5	11
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

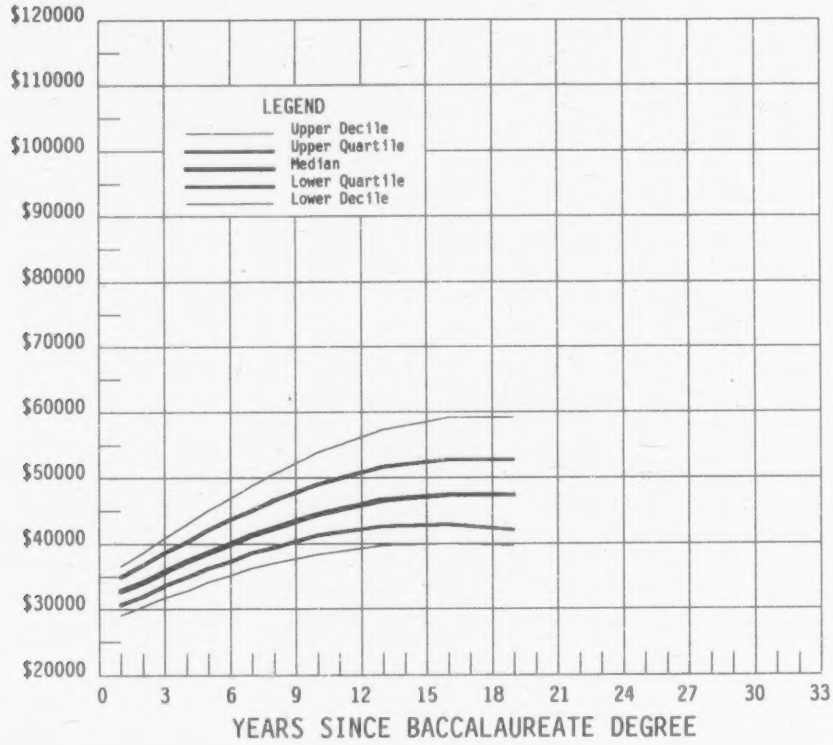
SALARY CURVES FOR ENGINEERS IN GAS UTILITIES
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: GAS UTILITIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	0	0	0	66500	77600	88100	97200	104500	109850	113500	115850	118200	98400
Upper Quartile	0	0	0	0	0	0	0	0	0	60000	66050	72550	78650	83600	87200	89400	90600	91350	79900
Median	0	0	0	0	0	0	0	0	0	52700	56150	61350	66800	71450	74850	76950	78050	78650	65350
Lower Quartile	0	0	0	0	0	0	0	0	0	48850	49700	53450	57650	61150	63450	64750	65350	65600	55100
Lower Decile	0	0	0	0	0	0	0	0	0	45700	46000	49050	52500	55300	57200	58250	58700	58950	47550
Mean	0	0	0	0	0	0	0	0	0	54950	59450	65700	71850	76800	80150	82100	83000	83450	71100
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	0	0	0	67600	70100	93500	103350	137500	87500	94500	102500	136000	98400
Upper Quartile	0	0	0	0	0	0	0	0	0	59650	66500	74500	78650	81250	77000	84400	91250	98750	79900
Median	0	0	0	0	0	0	0	0	0	52700	55500	62800	68000	66000	71350	74000	75000	84400	65350
Lower Quartile	0	0	0	0	0	0	0	0	0	48900	49750	52250	60000	57000	63500	64350	63650	67000	55100
Lower Decile	0	0	0	0	0	0	0	0	0	45600	46700	47300	54800	50750	58000	58800	55700	60600	47550
Mean	0	0	0	0	0	0	0	0	0	55350	57350	67700	73200	77500	71650	78050	79850	89550	71100
Supporting Data																			
Total Number	0	0	0	1	0	4	3	6	7	21	19	23	36	15	15	21	19	39	229
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	1	5	11
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

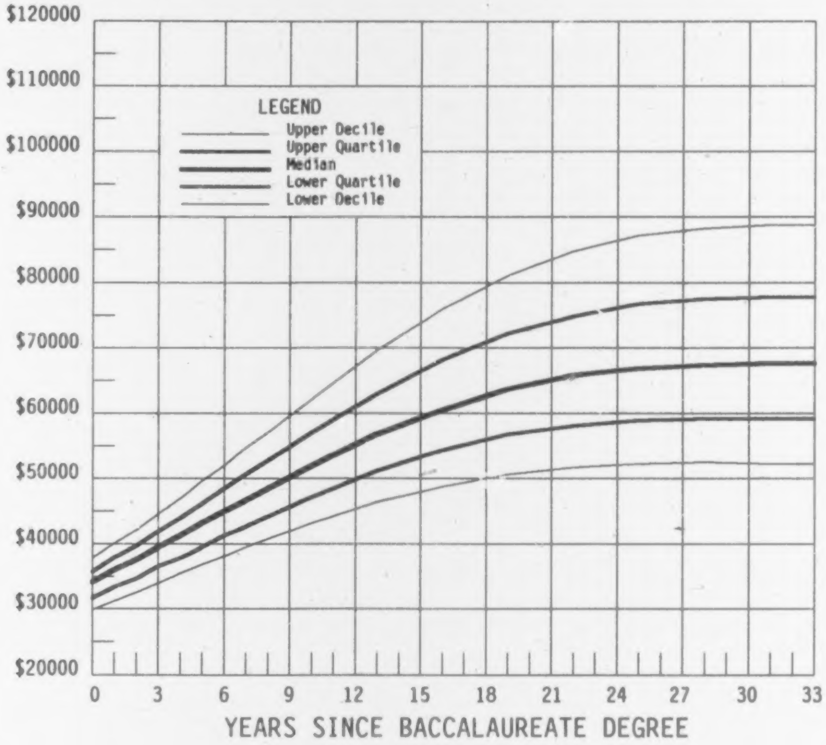
SALARY CURVES FOR ENGINEERS IN GAS UTILITIES
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: GAS UTILITIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	36550	38650	40750	42900	44950	47000	48900	50750	53950	57400	59100	59200	0	0	0	0	0	55100
Upper Quartile	0	35000	36800	38600	40350	42050	43700	45200	46650	49100	51700	52900	52900	0	0	0	0	0	48400
Median	0	32700	34250	35800	37250	38700	40050	41350	42500	44500	46550	47450	47400	0	0	0	0	0	42100
Lower Quartile	0	30650	32100	33550	34950	36250	37450	38600	39600	41200	42600	42850	42200	0	0	0	0	0	37150
Lower Decile	0	29050	30400	31650	32900	34100	35150	36150	37050	38500	39800	40100	39650	0	0	0	0	0	34000
Mean	0	32750	34400	36000	37600	39150	40600	42000	43250	45400	47650	48600	48500	0	0	0	0	0	43450
Raw (Unsmoothed) Statistics																			
Upper Decile	0	35250	37400	40100	47600	48800	45200	50750	51500	53000	54700	58400	63050	0	0	0	0	0	55100
Upper Quartile	0	34150	35750	38750	42500	47000	42700	43250	48300	49250	50550	50750	55750	0	0	0	0	0	48400
Median	0	30500	34750	37000	37200	41000	40100	39750	44300	44650	45100	45000	50750	0	0	0	0	0	42100
Lower Quartile	0	29100	32000	34500	35350	37000	38000	36900	41850	41800	40100	41400	45250	0	0	0	0	0	37150
Lower Decile	0	28450	29050	32550	33600	35200	36300	34500	38750	38750	37650	39350	42050	0	0	0	0	0	34000
Mean	0	31350	34050	36500	38950	41350	40450	40600	44900	45600	45800	47050	51400	0	0	0	0	0	43450
Supporting Data																			
Total Number	9	11	16	18	16	12	28	25	25	40	33	18	17	7	8	6	5	9	303
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

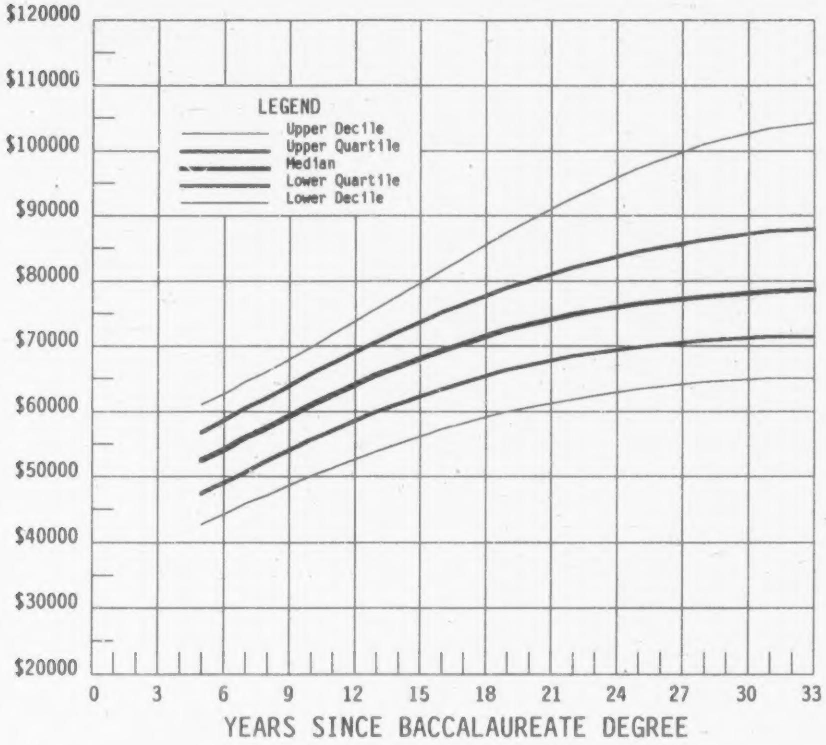
SALARY CURVES FOR ENGINEERS IN RESEARCH LABORATORIES
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: RESEARCH LABORATORIES

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	37800	39950	42250	44600	47050	49500	52050	54600	57150	62250	69550	75950	81100	84800	87150	88400	88900	88550	77200
Upper Quartile	35850	37800	39850	41900	44050	46200	48400	50600	52750	57050	63050	68200	72200	75050	76800	77650	77950	77550	65600
Median	34200	35950	37700	39500	41300	43100	44950	46750	48550	52000	56700	60650	63650	65750	67000	67600	67750	67450	54700
Lower Quartile	31700	33250	34800	36400	38000	39600	41200	42800	44350	47300	51250	54400	56700	58200	59000	59300	59250	58700	46000
Lower Decile	29850	31200	32600	34000	35350	36750	38100	39450	40750	43200	46400	48900	50650	51750	52300	52450	52350	51800	38400
Mean	34050	35800	37600	39400	41300	43150	45050	46900	48800	52400	57450	61750	65100	67500	69050	69850	70200	70100	56900
Raw (Unsmoothed) Statistics																			
Upper Decile	35100	40050	41850	45100	48000	49700	53350	55800	59150	63300	68050	72600	78850	83300	88450	89450	89350	90400	77200
Upper Quartile	33450	36500	40000	42400	45200	46800	50000	52300	54850	57700	61100	64850	71000	74100	77800	78400	78300	79150	65600
Median	32300	34200	38100	39450	41800	43800	46850	48700	50900	52700	55100	58050	61450	65100	67600	67850	68100	69300	54700
Lower Quartile	30850	31750	34700	36000	37900	40000	42700	44700	47050	48000	50100	52400	54550	57700	58850	59500	60000	60200	46000
Lower Decile	29550	29850	32350	33950	35300	37000	39050	41200	42600	43500	45250	47550	49350	52100	52750	52350	52650	52500	38400
Mean	32500	34600	37600	39450	41700	43600	46500	48600	50900	53100	55950	59300	63400	66800	69800	70200	70700	71500	56900
Supporting Data																			
Total Number	528	692	947	995	971	929	1169	1250	1262	3353	2689	2224	2070	1878	1789	1707	1449	2245	28147
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	3	3	13	16	16	32	84
Less Than $22000	2	4	1	0	1	1	0	1	0	2	1	0	0	0	0	1	0	1	15

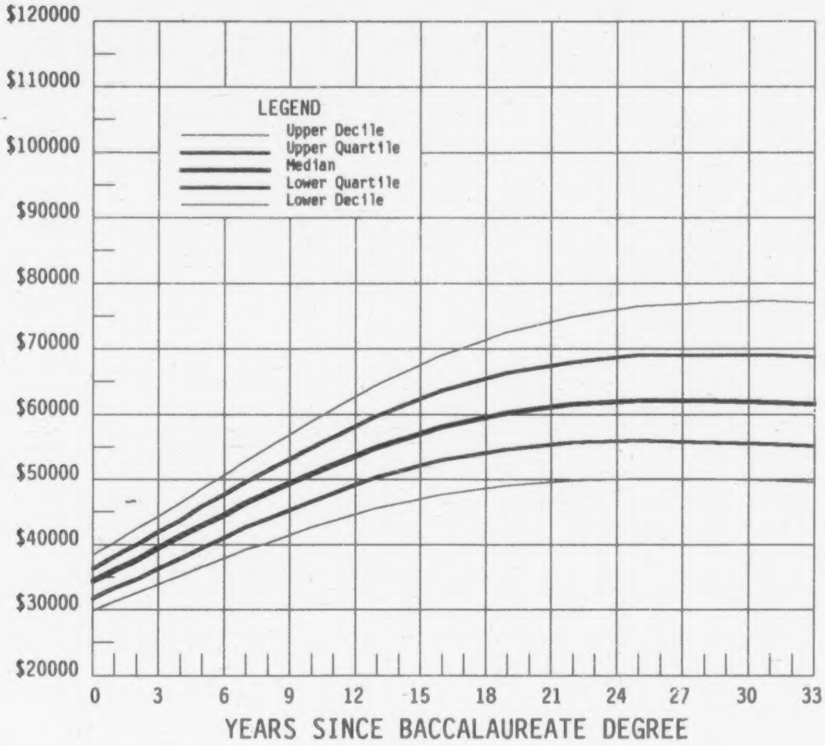
SALARY CURVES FOR ENGINEERS IN RESEARCH LABORATORIES SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: RESEARCH LABORATORIES, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	61150	62800	64500	66250	69900	75750	81650	87450	92750	97300	100950	103600	106400	92350
Upper Quartile	0	0	0	0	0	56750	58600	60450	62250	65800	70750	75200	79000	82100	84500	86350	87650	89300	80700
Median	0	0	0	0	0	52450	54250	56000	57700	61000	65500	69350	72450	74850	76550	77700	78400	79050	72150
Lower Quartile	0	0	0	0	0	47450	49150	50800	52450	55600	59900	63550	66400	68550	70000	70950	71450	71750	64150
Lower Decile	0	0	0	0	0	42800	44300	45800	47250	50050	53950	57250	59950	62000	63450	64450	65050	65600	56850
Mean	0	0	0	0	0	51950	53750	55500	57250	60650	65500	69800	73500	76550	78950	80750	82050	83700	74150
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	58200	62300	62550	65950	71650	75800	80300	88650	90550	99050	98900	102000	109400	92350
Upper Quartile	0	0	0	0	0	51900	57900	59500	62800	67150	70700	74000	78650	81100	86300	87300	86850	89000	80700
Median	0	0	0	0	0	46250	53400	54100	58700	62800	65250	68050	72650	73850	77200	78600	78150	78900	72150
Lower Quartile	0	0	0	0	0	41550	47450	49000	53000	57750	60150	61450	66600	68200	70150	72100	70650	71900	64150
Lower Decile	0	0	0	0	0	33900	43300	47000	50150	50550	53150	56150	60400	61450	64650	64950	64750	65200	56850
Mean	0	0	0	0	0	46550	53000	54250	58300	62250	64950	68350	73900	75500	80450	81550	81550	83350	74150
Supporting Data																			
Total Number	1	3	2	7	8	19	61	111	152	532	547	593	674	748	708	676	565	806	6213
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	1	3	3	13	16	16	32	84
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

SALARY CURVES FOR ENGINEERS IN RESEARCH LABORATORIES NON-SUPERVISORS, ALL DEGREE LEVELS

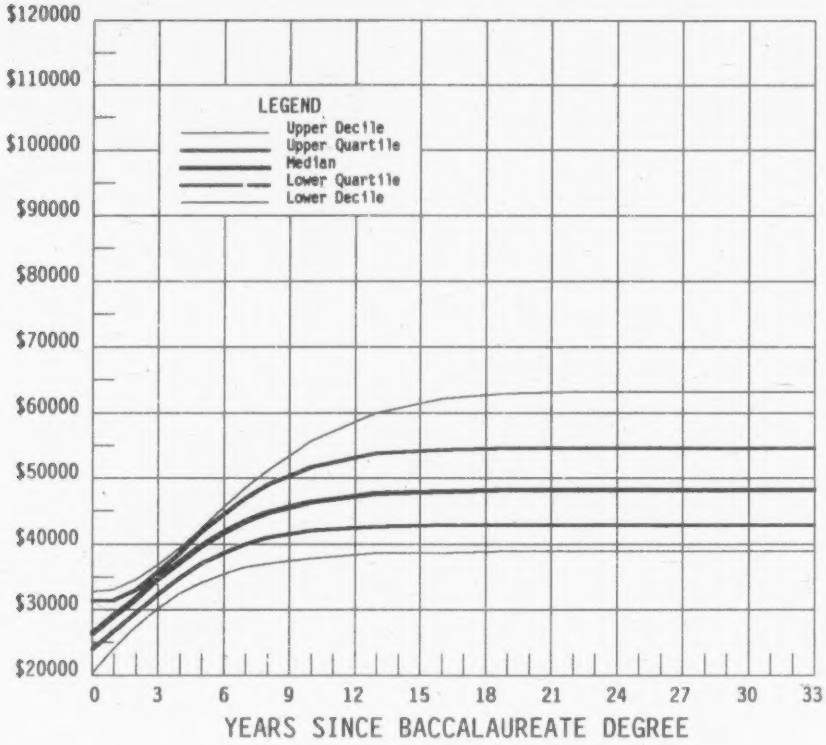


1989 ENGINEERING SALARY STATISTICS: RESEARCH LABORATORIES, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	38300	40250	42300	44350	46450	48600	50700	52800	54900	58950	64500	69100	72650	75050	76500	77150	77300	76850	67150
Upper Quartile	36200	38050	39950	41850	43800	45750	47650	49600	51450	55050	59800	63650	66400	68100	68950	69150	68950	68050	58900
Median	34300	36000	37700	39450	41200	42900	44600	46300	47950	51050	55050	58200	60350	61600	62150	62150	61900	60900	51450
Lower Quartile	31650	33200	34750	36350	37900	39500	41050	42550	44000	46750	50300	52950	54650	55600	55900	55750	55350	54300	43600
Lower Decile	29850	31200	32600	33950	35300	36600	37950	39200	40400	42700	45600	47750	49200	49950	50200	50150	49850	49050	36750
Mean	34200	35900	37600	39300	41050	42750	44450	46150	47800	50900	55050	58350	60700	62150	62900	63100	62950	62250	52000
Raw (Unsmoothed) Statistics																			
Upper Decile	35000	40050	41800	44900	47850	49600	52700	54900	57050	59200	62600	65600	70550	73300	77800	76300	77800	80400	67150
Upper Quartile	33450	36450	40000	42350	45100	46750	49750	51850	53800	55500	58100	60500	63450	66000	68950	68750	69900	71750	58900
Median	32300	34200	38100	39400	41800	43800	46600	48300	50200	51650	53600	55700	57200	60300	61550	62050	62800	63950	51450
Lower Quartile	30850	31750	34700	36000	37900	40000	42500	44400	46400	47300	49000	51000	52600	54750	55250	55300	56200	56500	43600
Lower Decile	29550	29850	32350	33950	35300	37050	38950	41000	42100	42800	44600	46400	47600	50200	50200	49850	50050	50350	36750
Mean	32500	34500	37600	39400	41600	43550	46150	48050	49900	51350	53650	56000	58300	61000	62800	62800	63750	64850	52000
Supporting Data																			
Total Number	527	689	945	988	963	910	1108	1139	1110	2821	2142	1631	1396	1130	1081	1031	884	1439	21934
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	2	4	1	0	1	1	0	1	0	2	1	0	0	0	0	0	0	1	14

CURVES AND TABLES FOR GOVERNMENT

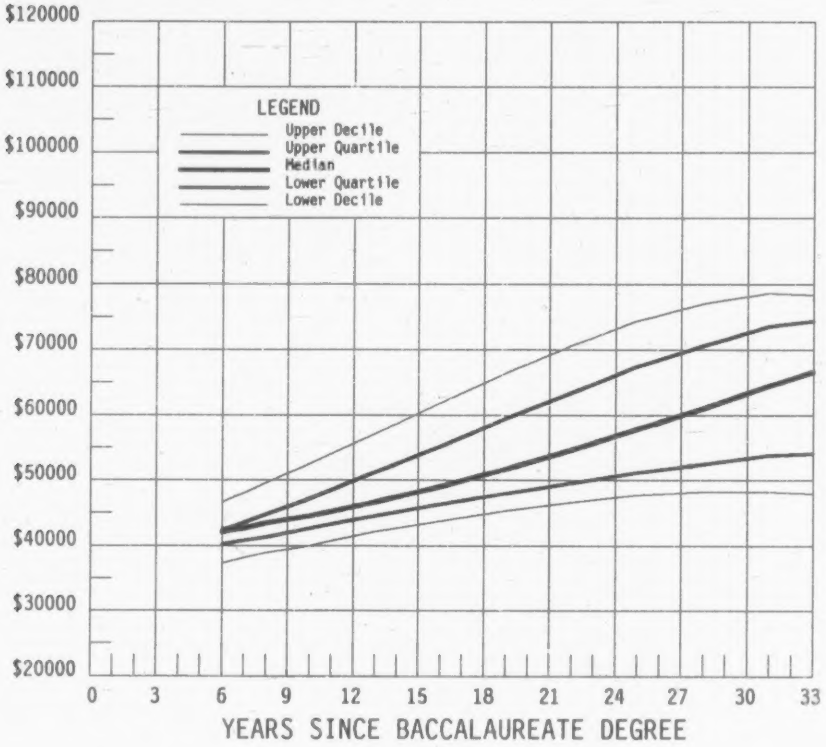
SALARY CURVES FOR ENGINEERS IN FEDERAL GOVERNMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: FEDERAL GOVERNMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32750	33100	34650	36900	39600	42500	45500	48450	51150	55700	60000	62050	62850	63100	63150	63200	63200	63200	60550
Upper Quartile	31600	31450	33150	35750	38750	41800	44600	47050	49050	51850	53750	54350	54550	54550	54600	54600	54600	54600	48400
Median	26500	29050	31850	34700	37350	39750	41750	43450	44750	46500	47700	48100	48250	48250	48250	48250	48250	48250	40400
Lower Quartile	24100	26700	29500	32300	34850	37000	38750	40050	41000	42150	42800	42950	43000	43000	43000	43000	43000	43000	34400
Lower Decile	20400	24100	27450	30250	32550	34250	35550	36500	37150	38000	38550	38750	38850	38850	38900	38900	38900	38900	30450
Mean	27100	28850	31450	34300	37200	39900	42150	44000	45450	47300	48450	48750	48850	48850	48850	48850	48850	48850	42850
Raw (Unsmoothed) Statistics																			
Upper Decile	31550	33300	36650	39050	39950	40900	43000	43000	45950	46800	52050	55400	59900	69300	71900	72950	73900	76550	60550
Upper Quartile	30750	31950	34800	37150	37900	39450	40600	40800	42750	43950	47950	48850	53300	61500	58700	61600	63750	73750	48400
Median	25500	30800	32700	35350	36500	37250	39100	39150	39950	41350	44600	45000	46500	51500	51600	52550	53300	60150	40400
Lower Quartile	24200	25850	30850	33500	34600	34800	37100	37050	38100	37950	40900	41350	43350	45900	46600	46500	44950	44900	34400
Lower Decile	19850	24500	28350	32050	32150	32000	34650	33950	35200	33700	36600	38100	38800	41550	42900	42300	40450	37950	30450
Mean	26400	29700	32600	35250	36400	36950	38900	38800	40150	41250	44550	45750	48400	53300	53600	54600	54550	58500	42850
Supporting Data																			
Total Number	131	149	170	155	106	101	120	69	64	143	142	124	162	118	151	147	113	129	2294
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	28	6	0	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	40

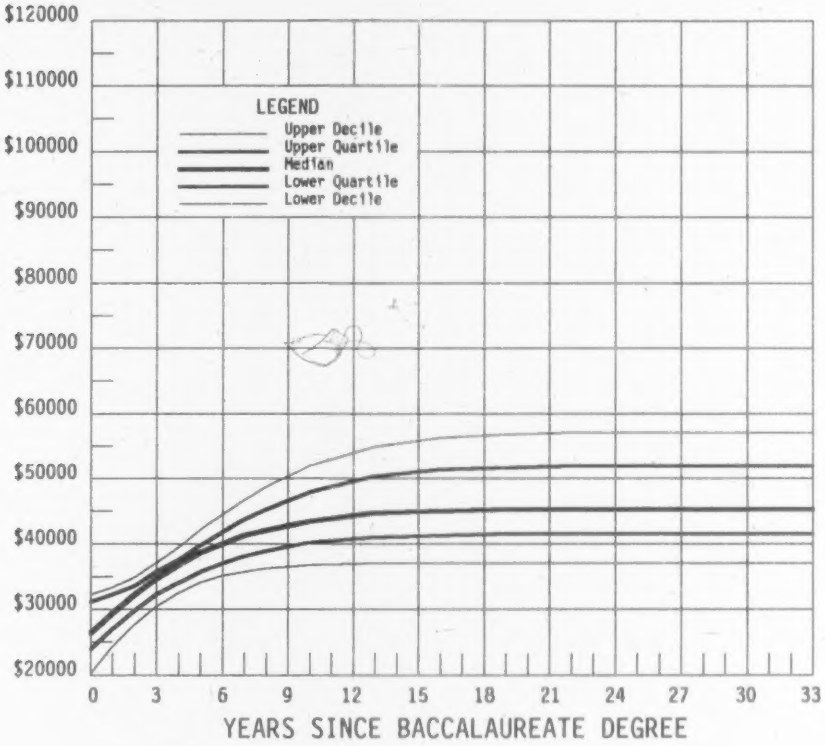
SALARY CURVES FOR ENGINEERS IN FEDERAL GOVERNMENT SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: FEDERAL GOVERNMENT, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	0	0	46650	48050	49500	52450	57100	61750	66350	70600	74300	77050	78750	77000	74300
Upper Quartile	0	0	0	0	0	0	42300	43500	44700	47200	51150	55250	59400	63500	67350	70800	73650	76750	64400
Median	0	0	0	0	0	0	42250	42800	43400	44650	46750	49100	51700	54600	57750	61100	64600	73000	53200
Lower Quartile	0	0	0	0	0	0	40150	40750	41350	42600	44450	46300	48050	49700	51200	52550	53750	55650	46850
Lower Decile	0	0	0	0	0	0	37400	38100	38800	40100	42050	43800	45350	46650	47600	48150	48350	46850	42600
Mean	0	0	0	0	0	0	42300	43150	44050	45800	48550	51300	54000	56650	59150	61450	63400	66600	55950
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	0	0	45900	46700	0	51800	58400	64600	64800	71950	74600	75300	76300	78550	74300
Upper Quartile	0	0	0	0	0	0	44250	43600	0	46300	51500	54750	57000	68100	67000	70000	74250	76400	64400
Median	0	0	0	0	0	0	42500	42250	0	44000	48250	49200	49750	59000	55250	60000	67350	73000	53200
Lower Quartile	0	0	0	0	0	0	40750	40600	0	41900	45500	47050	46300	50550	50700	53000	54600	55250	46850
Lower Decile	0	0	0	0	0	0	39100	38150	0	39400	42800	43000	44100	47400	48250	48600	48050	46550	42600
Mean	0	0	0	0	0	0	42500	42800	0	45550	49450	51500	52000	59150	58650	60950	64100	66500	55950
Supporting Data																			
Total Number	0	0	1	0	2	5	11	11	7	34	38	37	54	51	61	56	37	47	452
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

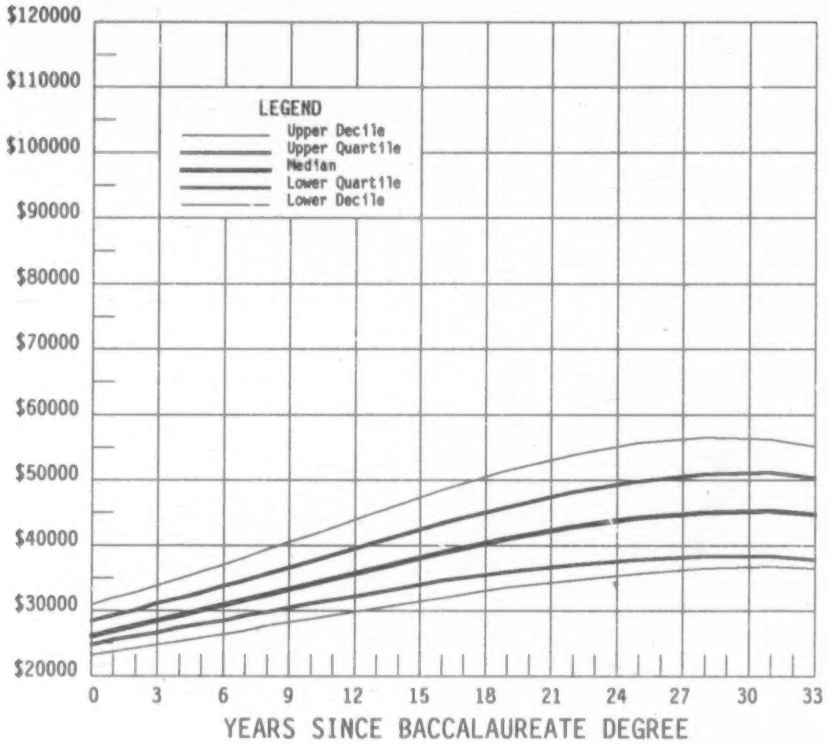
SALARY CURVES FOR ENGINEERS IN FEDERAL GOVERNMENT NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: FEDERAL GOVERNMENT, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	32350	33350	35050	37200	39600	42050	44450	46700	48750	52000	54900	56250	56800	56950	57000	57000	57000	57000	52850
Upper Quartile	31250	32150	33700	35650	37700	39800	41850	43700	45350	47950	50300	51350	51750	51900	51950	51950	51950	51950	44500
Median	26400	29400	32150	34600	36750	38550	40050	41250	42250	43600	44700	45150	45350	45400	45400	45400	45400	45400	38250
Lower Quartile	24000	27050	29800	32150	34150	35800	37150	38200	39000	40150	41000	41350	41500	41550	41550	41550	41550	41550	33000
Lower Decile	20250	24200	27650	30450	32550	34050	35100	35750	36200	36700	36950	37050	37050	37050	37050	37050	37050	37050	29700
Mean	27000	29350	31700	33950	36050	37950	39650	41100	42350	44150	45700	46350	46600	46700	46700	46700	46700	46700	39600
Raw (Unsmoothed) Statistics																			
Upper Decile	31550	33300	36600	39050	39700	40650	41950	41600	45000	45950	49550	49750	56200	64250	60800	63900	63200	74550	52850
Upper Quartile	30750	31950	34750	37150	37850	39200	40300	40250	41800	43050	46100	46250	50400	54600	55600	55700	56000	70000	44500
Median	25500	30800	32650	35350	36450	37100	38850	38800	39600	40200	43150	43350	45350	47600	48200	48700	46850	50000	38250
Lower Quartile	24200	25850	30850	33500	34550	34600	36800	36550	37800	36300	39600	40000	41600	43000	44650	44500	44000	41750	33000
Lower Decile	19850	24500	28300	32050	32100	31850	34500	33200	34850	33150	34950	35700	38150	39000	40500	41050	39550	36400	29700
Mean	26400	29700	32500	35250	35900	36600	38550	38050	39600	39900	42800	43300	46600	48850	50150	50700	49950	53900	39600
Supporting Data																			
Total Number	131	149	169	155	104	96	109	58	57	109	104	87	108	67	90	91	76	82	1842
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	28	6	0	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	40

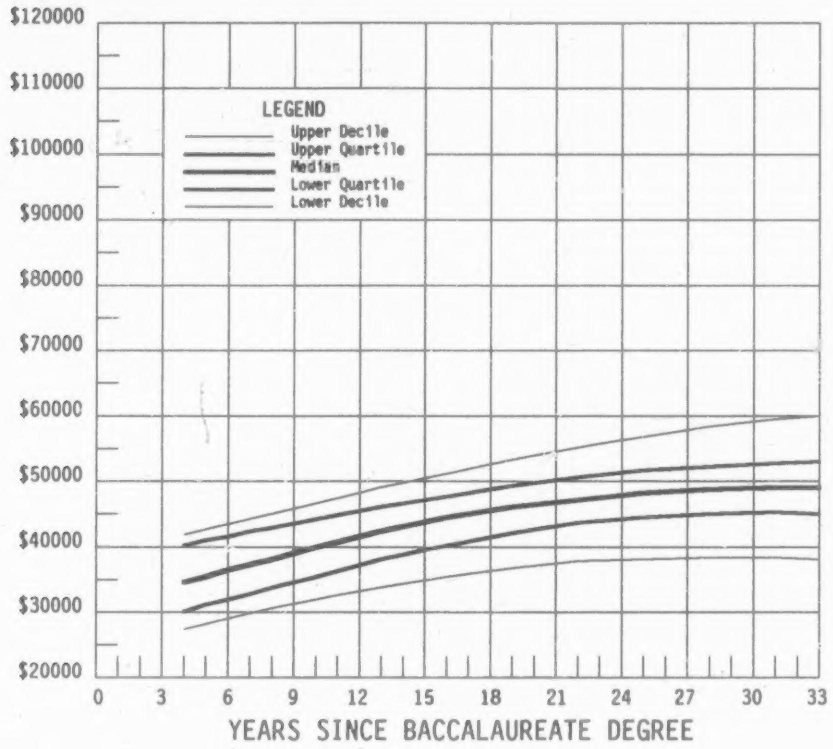
SALARY CURVES FOR ENGINEERS IN STATE GOVERNMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: STATE GOVERNMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	30950	31900	32900	33950	35000	36050	37150	38250	39350	41650	45100	48400	51400	53850	55650	56500	56400	51750	50600
Upper Quartile	28550	29350	30250	31100	32000	32900	33850	34800	35750	37650	40550	43350	45950	48150	49800	50850	51100	48150	45250
Median	26250	27000	27750	28500	29250	30050	30850	31650	32450	34100	36550	38900	41050	42900	44300	45150	45400	43100	37100
Lower Quartile	24900	25500	26150	26750	27350	28000	28600	29250	29900	31100	32900	34550	36000	37150	37950	38350	38350	36200	31700
Lower Decile	23100	23650	24200	24750	25300	25900	26450	27000	27600	28750	30400	32000	33500	34800	35800	36500	36850	36000	27700
Mean	26800	27500	28300	29050	29800	30600	31400	32200	33050	34650	37100	39400	41500	43250	44550	45250	45400	42850	38600
Raw (Unsmoothed) Statistics																			
Upper Decile	27800	31150	32950	31800	34750	36000	40350	37200	43100	45100	45400	48800	49950	52300	52600	53700	56850	52950	50600
Upper Quartile	27000	29350	30250	30200	32150	32800	34800	33600	37250	38950	39900	45100	46500	48150	47950	49200	50400	49100	45250
Median	24400	27200	27800	28250	30050	30300	31550	31200	33450	33950	35950	38700	42450	44150	43350	44300	44900	43550	37100
Lower Quartile	22800	25650	26450	26750	27750	27900	28550	28600	30800	30850	33500	36000	37050	37100	37150	37200	37250	37050	31700
Lower Decile	22000	23000	24150	25500	26300	26350	26400	26300	27700	28750	30000	31000	34850	35350	36100	36250	36300	36250	27700
Mean	24800	27150	28250	28550	30350	30950	32200	31650	34400	35300	36850	39900	42100	43300	43400	44100	44750	43600	38600
Supporting Data																			
Total Number	115	177	254	280	245	275	265	214	202	617	544	489	473	440	529	536	921	959	7536
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	11	8	8	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	30

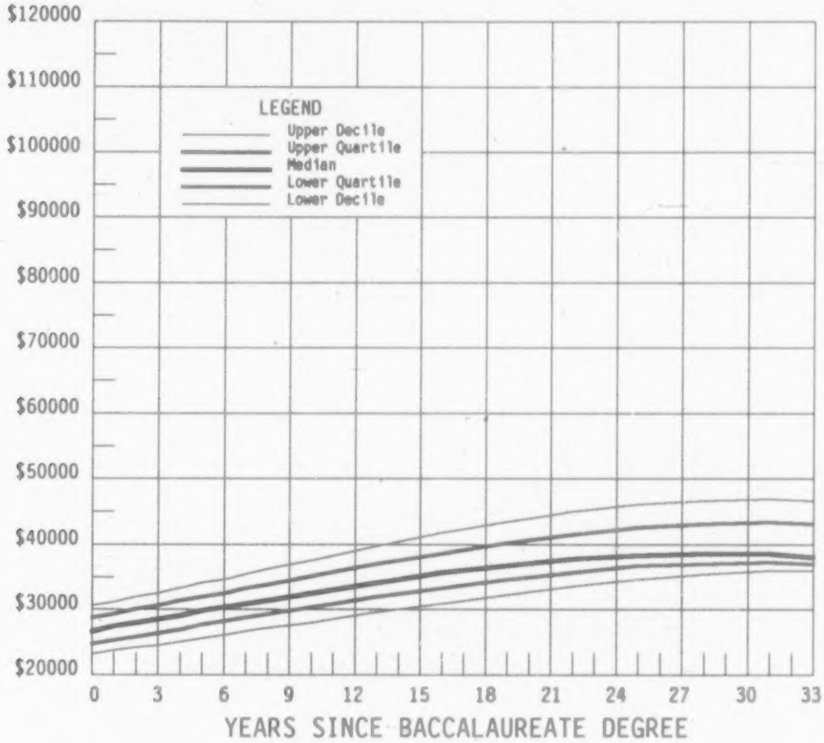
SALARY CURVES FOR ENGINEERS IN STATE GOVERNMENT
SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: STATE GOVERNMENT, SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	0	0	41900	42700	43500	44300	45100	46650	49000	51200	53300	55200	56900	58350	59500	61200	56000
Upper Quartile	0	0	0	0	40250	40950	41600	42300	42950	44250	46150	47850	49350	50600	51650	52400	52900	53100	50500
Median	0	0	0	0	34600	35500	36450	37350	38250	39950	42350	44400	46050	47300	48200	48750	49000	48900	45950
Lower Quartile	0	0	0	0	30200	31100	32000	32900	33800	35550	38100	40300	42200	43650	44650	45200	45300	44450	41000
Lower Decile	0	0	0	0	27550	28300	29050	29800	30550	31950	33850	35500	36800	37750	38250	38450	38350	37200	34450
Mean	0	0	0	0	34850	35700	36550	37350	38150	39750	42000	44000	45700	47050	48050	48750	49100	49000	45700
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	0	0	42100	44500	43750	45650	46150	46550	48000	50600	52050	55150	57600	59850	60400	60150	56000
Upper Quartile	0	0	0	0	37900	41750	42200	43000	43900	45200	45600	47300	48750	50450	51450	52300	54100	52550	50500
Median	0	0	0	0	31650	34600	37550	34900	41050	41900	42000	44400	45800	46850	47350	48550	49350	49100	45950
Lower Quartile	0	0	0	0	30550	30750	31350	30100	36200	35800	38400	40450	43200	43600	43600	44800	45050	44900	41000
Lower Decile	0	0	0	0	29250	29100	29850	28550	28200	30800	33800	35100	39600	38200	37500	37500	38000	37600	34450
Mean	0	0	0	0	33700	36150	36800	36000	39250	40300	41750	43800	45900	46900	47550	48700	49450	48900	45700
Supporting Data																			
Total Number	10	8	6	28	36	42	60	33	33	186	168	242	269	249	278	280	489	436	2853
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

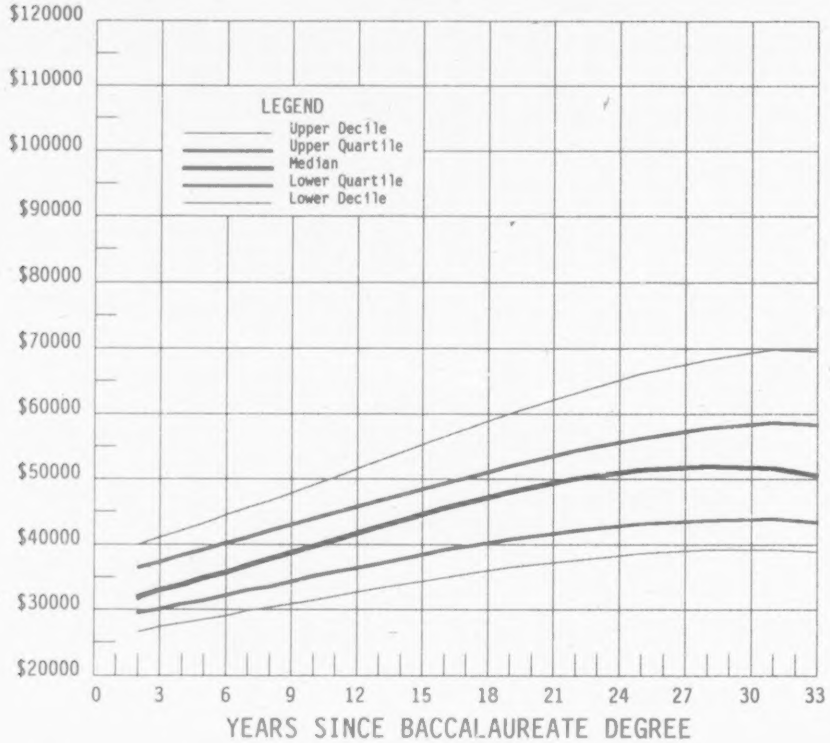
SALARY CURVES FOR ENGINEERS IN STATE GOVERNMENT
NON-SUPERVISORS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: STATE GOVERNMENT, NON-SUPERVISORY

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	30550	31250	31950	32650	33350	34100	34800	35550	36250	37700	39750	41750	43500	44950	46050	46800	47000	45450	43750
Upper Quartile	28850	29450	30100	30700	31350	31950	32600	33250	33850	35100	36950	38650	40200	41500	42550	43200	43500	42450	37350
Median	26800	27400	27950	28550	29150	29750	30300	30900	31500	32600	34200	35650	36900	37850	38450	38700	38550	36500	34850
Lower Quartile	24850	25400	25950	26500	27050	27600	28150	28700	29250	30350	31950	33450	34750	35850	36700	37200	37350	36150	29650
Lower Decile	23200	23700	24150	24650	25150	25600	26100	26600	27100	28100	29600	31000	32350	33550	34600	35450	36050	36200	26700
Mean	26900	27500	28100	28700	29250	29850	30450	31050	31650	32850	34550	36100	37500	38650	39500	40000	40100	38650	34300
Raw (Unsmoothed) Statistics																			
Upper Decile	27800	31200	33000	31800	33800	34150	35500	35150	40250	37900	38050	43050	43000	46100	45550	45800	46250	46050	43750
Upper Quartile	27050	29400	30250	30300	31850	32050	33600	33200	35900	35300	36750	37750	37950	42450	42550	42600	44350	42350	37350
Median	24900	27150	27800	28350	29550	29800	30900	30950	33050	32650	34950	36600	36950	37250	37450	37450	37450	37400	34850
Lower Quartile	22800	25650	26400	26750	27450	27550	27750	28300	30550	30300	32250	32650	35850	36300	36450	36550	36600	36600	29650
Lower Decile	21800	23000	24100	25200	26200	26200	26150	26200	27550	28450	29200	29900	31100	34150	35050	36050	36050	36150	26700
Mean	24850	27150	28250	28550	29800	30000	30900	30900	33450	33150	34650	36100	37100	38650	38850	39050	39500	39250	34300
Supporting Data																			
Total Number	106	169	248	252	210	233	205	181	168	431	376	247	204	191	251	256	432	523	4683
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	11	8	8	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	30

SALARY CURVES FOR ENGINEERS IN LOCAL GOVERNMENT
ALL ENGINEERS, ALL DEGREE LEVELS



1989 ENGINEERING SALARY STATISTICS: LOCAL GOVERNMENT

Years Since B.S.	0	1	2	3	4	5	6	7	8	9-11	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33+	Totals
Smooth Curve Data																			
Upper Decile	0	0	40000	41100	42150	43300	44450	45600	46750	49150	52850	56500	60050	63300	66100	68300	69750	69300	60000
Upper Quartile	0	0	36550	37400	38300	39200	40150	41050	42000	43900	46700	49450	52000	54350	56300	57750	58600	57900	50750
Median	0	0	32050	32950	33900	34900	35850	36850	37850	39850	42800	45600	48050	50050	51400	52000	51800	47600	42850
Lower Quartile	0	0	29500	30150	30900	31600	32300	33000	33700	35150	37200	39150	40850	42250	43300	43850	43950	41950	36500
Lower Decile	0	0	26800	27400	28000	28600	29200	29800	30400	31600	33350	34950	36400	37600	38550	39100	39300	37900	29800
Mean	0	0	33600	34400	35250	36050	36900	37700	38550	40250	42750	45200	47500	49500	51150	52350	53050	52100	44700
Raw (Unsmoothed) Statistics																			
Upper Decile	0	0	43100	0	0	40850	0	0	43700	46100	54100	58400	59200	72000	68800	71200	62000	71200	60000
Upper Quartile	0	0	36000	0	0	38400	0	0	41750	43600	48800	49600	54500	52000	58000	55500	55600	60000	50750
Median	0	0	30800	0	0	35000	0	0	39100	39800	44500	47000	48000	47750	53000	50750	49500	49000	42850
Lower Quartile	0	0	29000	0	0	29750	0	0	36250	34500	39700	38750	39700	41000	42900	47750	40700	43000	36500
Lower Decile	0	0	27600	0	0	28100	0	0	27300	30200	36600	36400	38150	34000	40400	38600	38000	38600	29800
Mean	0	0	33900	0	0	34700	0	0	38000	39350	44900	46250	47450	49000	51950	53400	49600	53500	44700
Supporting Data																			
Total Number	2	8	16	9	6	11	6	8	13	22	29	14	24	20	18	22	30	32	290
$125,000 or More	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Less Than $22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDICES

1989 SALARY SURVEY PARTICIPANTS, BY INDUSTRIAL SECTOR

AEROSPACE

Ace Industries Division of Textron, Inc., Santa Fe Springs, California (also classed with Fabricated Metal Products)
Bell Aerospace Division of Textron, Inc., Niagara Wheatfield, New York (also classed with Electronic Equipment)
Clifton Precision Instruments and Life Support, Davenport, Iowa (primary classification: Precision Instruments)
Cox & Company, Inc., New York, New York
Dynamic Controls Corporation, South Windsor, Connecticut (primary classification: Electronic Equipment)
FL Aerospace Corp., Grimes Division, Urbana, Ohio (also classed with Electrical Machinery, Electronic Equipment, Computers)
General Dynamics/Fort Worth Division, Fort Worth, Texas (also classed with Electronic Equipment)
General Electric Defense Systems Division, Pittsfield, Massachusetts
Grumman Corporation, Bethpage, New York (also classed with Electronic Equipment)
Howmet Corporation, Dover, New Jersey
Learjet Corporation, Wichita, Kansas
LTV Missiles Division, Vought Corporation, Dallas, Texas (also classed with Electronic Equipment)
Micro Craft, Inc., Tullahoma, Tennessee (four locations) (also classed with Fabricated Metal Products, Engineering Services)
Norden Systems, Inc., Melville, New York
Northrop Corporation/Precision Products Division, Norwood, Massachusetts
RDA Logicon, Marina Del Rey, California
Teledyne Brown Engineering/Aerospace Group, Huntsville, Alabama
Thomas/Scifers, Inc., Manhattan Beach, California (also classed with Computers, Research Organizations)
United Technologies/Sikorsky Division, Stratford, Connecticut
Westinghouse Electric Corp., Defense Group, Baltimore, Maryland (also classed with Electronic Equipment)

AUTOMOTIVE & RELATED MANUFACTURING

Harley-Davidson Motor Company, Inc., Milwaukee, Wisconsin
Johnson Controls, Inc., Milwaukee, Wisconsin (also classed with Computers)
Mack Trucks, Inc. Product and Engineering Division, Allentown, Pennsylvania
Peterson Manufacturing Company, Grandview, Missouri
Zeller Corporation, Defiance, Ohio (also classed with Fabricated Metal Products)

CHEMICALS, DRUGS AND PLASTICS

Abitibi-Price Corporation, Building Products Div., Troy, Michigan (primary classification: Other Durable Goods)
Dow Chemical U.S.A., Midland, Michigan
Dow Corning Corporation, Midland, Michigan
E. I. Du Pont de Nemours & Co., Wilmington, Delaware
Freeman Chemical Corporation, Port Washington, Wisconsin
Fuel Tech, Inc., Stamford, Connecticut (primary classification: Fabricated Metal Products)
Henkel Corporation, Ambler, Pennsylvania
Linnhoff March, Inc., Leesburg, Virginia (also classed with Chemicals, Consultants)
Martin Marietta Energy Systems, Inc., Piketon, Ohio (primary classification: Other Durable Goods)
Mississippi Chemical Corporation, Yazoo City, Mississippi
National Starch & Chemical Corp., Bridgewater, New Jersey
Rohm and Haas Company, Philadelphia, Pennsylvania

COMMUNICATION SERVICES

Carolina Telephone & Telegraph Co., Tarboro, North Carolina
Lincoln Telephone & Telegraph Co., Lincoln, Nebraska
MCI Communications, Washington, D.C.
MCI International Network Engineering, Piscataway, New Jersey
Quintron Systems, Inc., Vanderberg AFB, California

COMPUTING SYSTEMS (including both hardware and software)

Allen-Bradley Company, Milwaukee, Wisconsin (primary classification: Electronic Equipment)
Computer Science Corporation, Falls Church, Virginia
Datakey, Inc., Burnsville, Minnesota (also classed with Electronic Equipment)
Ferranti International Controls, Sugar Land, Texas (also classed with Engineering Services)
FL Aerospace Corp., Grimes Division, Urbana, Ohio (primary classification: Aerospace)
Formation, Inc., Mount Laurel, New Jersey
Fujitsu America, Inc., San Jose, California
Harris Corporation, Government Support Systems Division, Syosset, New York (primary classification: Electronic Equipment)
Ithaca Peripherals Incorporated, Groton, New York (primary classification: Electronic Equipment)
Johnson Controls, Inc., Milwaukee, Wisconsin (primary classification: Automotive)
MetraByte Corporation, Taunton, Massachusetts
Noetic Technologies, St. Louis, Missouri (also classed with Consultants)
Ocean & Atmospheric Science, Dobbs Ferry, New York (primary classification: Electronic Equipment)
Summagraphics Corporation, Fairfield, Connecticut
Thomas/Scifers, Inc., Manhattan Beach, California (primary classification: Aerospace)
Unisys Corporation, Farmington, New Jersey

CONSTRUCTION

CBI Industries Inc., Oakbrook, Illinois (also classed with Engineering Services)
Ebasco Services, Inc., New York, New York (primary classification: Consultants)
Fluor Daniel, Inc., Irvine, California (primary classification: Consultants)
Kiewit Construction Group, Inc., Omaha, Nebraska
McClelland Consultants, Houston, Texas (primary classification: Consultants)
Stone & Webster Engineering Corp.,Boston, Massachusetts (primary classification: Consultants)
W. M. Lyles Co., Fresno, California

CONSULTANTS (see also Engineering Services)

ANCO Engineers, Inc., Culver City, California
Applied Technology Associates, Albuquerque, New Mexico (primary classification: Engineering Services)
Burgess & Niple, Limited, Columbus, Ohio
Centerline Engineering Corporation, Wexford, Pennsylvania (also classed with Engineering Services)
CF Braun, Inc., Alhambra, California
CH2M Hill, Inc., Englewood, Colorado
Clyde E. Williams & Associates, South Bend, Indiana
D'Appolonia Engineering Div., Ground Technology, Inc., Monroeville, Pennsylvania (also classed with Engineering Services)
De Leuw, Cather & Co., Chicago, Illinois
Design Automation Inc., Lexington, Massachusetts (also classed with Engineering Services)

Dugan Production Corporation, Farmington, New Mexico (primary classification: Petroleum)
Ebasco Services, Inc., New York, New York (also classed with Construction, Engineering Services)
Flakt, Inc. Peabody Process Systems Division, Norwalk, Connecticut (also classed with Engineering Services)
Floyd Browne Associates, Inc., Marion, Ohio
Fluor Daniel, Inc., Irvine, California (also classed with Construction, Engineering Services)
FW Management Operations Ltd., Houston, Texas (primary classification: Engineering Services)
Glosten Associates, Seattle, Washington (also classed with Engineering Services)
Goodkind & O'Dea, Inc., Rutherford, New Jersey
Greeley & Hanson, Chicago, Illinois
Hardesty & Hanover, New York, New York
Jacobs Associates, San Francisco, California
Jenkins & Charland, Inc., Fort Myers, Florida
Kennedy/Jenks/Chilton, Inc., San Francisco, California
Kidde Consultants, Inc., Baltimore, Maryland
Lawley, Matusky & Skelby Engineers, Pearl River, New York
Linnhoff March, Inc., Leesburg, Virginia (primary classification: Chemicals)
Maybeck, Bucher & Volland Consulting Engineers, P.C., Rochester, New York
McClelland Consultants, Houston, Texas (also classed with Construction)
McCrone, Inc., Annapolis, Maryland
Mechanical Dynamics Inc., Ann Arbor, Michigan (primary classification: Engineering Services)
Midwest Consulting Engineers, Chicago, Illinois (also classed with Engineering Services)
Noetic Technologies, St. Louis, Missouri (primary classification: computers)
PDI Corporation, Annapolis, Maryland (also classed with Electronic Equipment)
Prestige Engineering, Pepperell, Massachusetts
RMT, Inc. Madison, Wisconsin
Robert H. Fuller & Associates, Columbus, Ohio (also classed with Engineering Services)
Sargent & Lundy, Chicago, Illinois
SDRC Engineering Services Div., Western Regional Operations, San Diego, California (also classed with Engineering Services)
Simpson Gumpertz & Heger Inc., Arlington, Massachusetts
Stanley Consultants Inc., Muscatine, Iowa
Stone & Webster Engineering Corp., Boston, Massachusetts (also classed with Construction, Engineering Services)
Wright-Pierce, Topsham, Maine

ELECTRICAL MACHINERY

Allen-Bradley Company, Milwaukee, Wisconsin (primary classification: Electronic Equipment)
Babcock Industries, Inc., Chain & Lifting Products Div., York, Pennsylvania (primary classsification: Fabricated Metal Products)
Dwyer Instruments, Inc., Michigan City, Indiana (primary classification: Precision Instruments)
FL Aerospace Corp., Grimes Division, Urbana, Ohio (primary classification: Aerospace)
Hoover Company, North Canton, Ohio
Kennall Manufacturing Company, Chicago, Illinois
Maytag Company, Newton, Ohio
S&C Electric Company, Chicago, Illinois
Square D Company, Palatine, Illinois
Sta-Rite Industries, Inc. Water Equipment Div., Delavan, Wisconsin (primary classification: Non-Electrical Machinery)
Teledyne/Lewisburg, Lewisburg, Tennessee (primary classification: Electronic Equipment)
Whirlpool Corporation, Benton Harbor, Michigan

ELECTRIC UTILITIES (includes mixed electric/gas utilities)

Allegheny Power Services Corp., Greensburg, Pennsylvania
American Electric Power Service Corp., Columbus, Ohio
Appalachian Power Company, Roanoke, Virginia
Arkansas Power & Light Company, Little Rock, Arkansas
Boston Edison, Boston, Massachusetts
Cajun Electric Power Cooperative, Inc., Baton Rouge, Louisiana
Carolina Power & Light Company, Raleigh, North Carolina
Central Nebraska Public Power & Irrigation District, Holdrege, Nebraska
City Public Service Board, San Antonio, Texas
Commonwealth Edison Company, Chicago, Illinois
Cooperative Power Association, Eden Prairie, Minnesota
Dayton Power & Light Company, Dayton, Ohio
Deseret Generation & Transmission Co., Sandy, Utah
Detroit Edison, Detroit, Michigan
Electric Power of Chattanooga, Chattanooga, Tennessee
Indianapolis Power & Light Company, Indianapolis, Indiana
Iowa Resources, Des Moines, Iowa
Jersey Central Power & Light Co., Morristown, New Jersey
Kansas City Power & Light Company, Kansas City, Missouri
Metropolitan Edison Company, Reading, Pennsylvania
Minnesota Power, Duluth, Minnesota
Nebraska Public Power District, Columbus, Nebraska
New England Electric System, Westboro, Massachusetts
New York State Electric & Gas Company, Binghamton, New York
Niagara Mohawk Power Corporation, Syracuse, New York
Northwestern Wisconsin Electric Co., Grantsburg, Wisconsin
Penn Power and Light Company, Allentown, Pennsylvania
Potomac Electric Power Company, Washington, D.C.
Public Service Co. of New Hampshire, Manchester, New Hampshire
Rushmore Electric Power Cooperative, Rapid City, South Dakota
Sierra Pacific Power Company, Reno, Nevada
South Carolina Electric & Gas Co., Columbia, South Carolina
Southern Company Services, Birmingham, Alabama
Southern Indiana Gas & Electric Co., Evansville, Indiana
St. Johns River Power Park, Jacksonville, Florida
Tampa Electric Company, Tampa, Florida
Texas-New Mexico Power Company, Fort Worth, Texas
Upper Peninsula Power Company, Houghton, Michigan
Virginia Power, Richmond, Virginia
Wisconsin Electric Power Company, Milwaukee, Wisconsin

ELECTRONIC EQUIPMENT

Allen-Bradley Company, Milwaukee, Wisconsin (also classed with Electrical Machinery, Computers)
Alpha Industries, Inc., Woburn, Massachusetts
AMP Incorporated, Harrisburg, Pennsylvania
American Telephone & Telegraph Co., Bernardsville, New Jersey
Belfort Instrument Company, Baltimore, Maryland (primary classification: Precision Instruments)
Bell Aerospace Division of Textron, Inc., Niagara Wheatfield, New York (primary classification: Aerospace)

Blonder-Tongue Laboratories, Inc., Old Bridge, New Jersey
Contraves Goerz Corporation, Pittsburgh, Pennsylvania (primary classification: Precision Instruments)
Datakey, Inc., Burnsville, Minnesota (primary classification: Computers)
Dictaphone Corporation, Stratford, Connecticut (also classed with Research Organizations)
Dynamic Controls Corporation, South Windsor, Connecticut (also classed with Aerospace)
Emerson Industrial Controls, Grand Island, New York
FL Aerospace Corp., Grimes Division, Urbana, Ohio (primary classification: Aerospace)
General Dynamics/Fort Worth Division, Fort Worth, Texas (primary classification: Aerospace)
Grumman Corporation, Bethpage, New York (primary classification: Aerospace)
Harris Corporation, Government Support Systems Division, Syosset, New York (also classed with Computers)
Hazeltine Corporation, Greenlawn, New York
Ithaca Peripherals Incorporated, Groton, New York (also classed with Computers)
ITT Corporation, Avionics Division, Nutley, New Jersey
Litton Systems, Inc., Amecom Division, College Park, Maryland
LNK Communications, Inc., Hauppauge, New York
Lockheed Electronics Company, Inc., Plainfield, New Jersey
Loral Conic, San Diego, California
LTV Missiles Division, Vought Corporation, Dallas, Texas (primary classification: Aerospace)
North American Phillips Corp., Magnavox Electronic Systems Co., Fort Wayne, Indiana
Ocean & Atmospheric Science, Dobbs Ferry, New York (also classed with Computers, Research Organizations)
PDI Corporation, Annapolis, Maryland (primary classification: Consultants)
Plantronics Data Communications Group, Frederick, Maryland
Racal Corporation, Fort Lauderdale, Florida
Rochester Instrument Systems Inc., Rochester, New York
Rockwell International/Collins Defense Communications, Cedar Rapids, Iowa
Sippican Ocean Systems, Inc., Marion, Massachusetts
Stromberg-Carlson, Lake Mary, Florida
Teledyne/Lewisburg, Lewisburg, Tennessee (also classed with Electrical Machinery)
Tracor Aerospace, Austin, Texas
Westinghouse Electric Corp., Defense Group, Baltimore, Maryland (primary classification: Aerospace)

ENGINEERING SERVICES (see also Consulting)

Allendale Mutual Insurance Company, Johnston, Rhode Island
Applied Technology Associates, Albuquerque, New Mexico (also classed with Consultants, Research Organizations)
A.P.V. Crepaco, Tonowanda, New York (primary classification: Non-Electric Machinery)
Arkwright Mutual Insurance Co., Waltham, Massachusetts
BDM International, Inc., McLean, Virginia
Boeing Petroleum Services, Inc., New Orleans, Louisiana
CBI Industries Inc., Oakbrook, Illinois (primary classification: Construction)
Centerline Engineering Corporation, Wexford, Pennsylvania (primary classification: Consultants)
CSA Engineering Inc., Palo Alto, California (also classed with Research Organizations)
D'Appolonia Engrg Div., Ground Technology, Inc., Monroeville, Pennsylvania (primary classification: Consultants)
Design Automation Inc., Lexington, Massachusetts (primary classification: Consultants)
Ebasco Services, Inc., New York, New York (primary classification: Consultants)
Ferranti International Controls, Sugar Land, Texas (primary classification: Computers)
Flakt, Inc. Peabody Process Systems Division, Norwalk, Connecticut (primary classification: Consultants)
Fluor Daniel, Inc., Irvine, California (primary classification: Consultants)
FW Management Operations Ltd., Houston, Texas (also classed with Consultants)
General Research Corporation, McLean, Virginia
Glosten Associates, Seattle, Washington (primary classification: Consultants)

Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee (primary classification: Other Durable Goods)
Mechanical Dynamics Inc., Ann Arbor, Michigan (also classed with Consultants)
Micro Craft, Inc., Tullahoma, Tennessee (four locations) (primary classification: Aerospace)
Midwest Consulting Engineers, Chicago, Illinois (primary classification: Consultants)
Onsite Energy, Inc., Portland, Oregon
Riverside Research Institute, New York, New York (also classed with Research Organizations)
Robert H. Fuller & Associates, Columbus, Ohio (primary classification: Consultants)
SDRC Engrg Svces Div., Western Regional Operations, San Diego, California (primary classification: Consultants)
Stone & Webster Engineering Corp., Boston, Massachusetts (primary classification: Consultants)
Sverdrup Technology, Inc., Tullahoma, Tennessee (nine locations)
Underwriters Laboratories Inc., Northbrook, Illinois
Univ. of Tennessee Space Institute, Energy Conservation Program, Tullahoma, Tennessee (primary classification: Research Organizations)
Westinghouse Energy Center, Monroeville, Pennsylvania
Westinghouse Hanford Company, Hanford, Washington

FABRICATED METAL PRODUCTS

Ace Industries Division of Textron, Inc., Santa Fe Springs, California (primary classification: Aerospace)
Babcock & Wilcox Company, Barberton, Ohio
Babcock Industries, Inc., Chain & Lifting Products Div., York, Pennsylvania (also classed with Electrical Machinery)
Cashco Inc., Ellsworth, Kansas
Dover Corporation/Bernard Division, Beecher, Illinois
Duo-Fast Corporation, Franklin Park, Illinois
Emerson Electric Company, Maysville, Kentucky
FAG Bearings Corporation, Stamford, Connecticut
Fuel Tech, Inc., Stamford, Connecticut (also classed with Chemicals)
IMO Delaval, Florence, New Jersey
Micro Craft, Inc., Tullahoma, Tennessee (four locations) (primary classification: Aerospace)
Murry Onio Manufacturing Co., Brentwood, Tennessee
NI Industries, Inc., Vernon Division, Los Angeles, California
Nordyne, St. Louis, Missouri
PMI Food Equipment Group, Troy, Ohio
Schramm, Inc., West Chester, Pennsylvania (primary classification: Non-Electrical Machinery)
Smith Berger Marine, Inc., Seattle, Washington (primary classification: Non-Electrical Machinery)
The Timken Company, Canton, Ohio
Torrington Company, Torrington, Connecticut
Zeller Corporation, Defiance, Ohio (primary classification: Automotive)

GAS UTILITIES & PIPELINES

Battle Creek Gas Company, Battle Creek, Michigan
CNG Transmission Corporation, Clarksburg, West Virginia
Colorado Interstate Gas Company, Colorado Springs, Colorado
Columbia Gas Transmission Corp., Charleston, West Virginia
Consolidated Natural Gas Service Co., Pittsburgh, Pennsylvania
Metropolitan Utilities District, Omaha, Nebraska (also classed with Local Government)
Southern Natural Gas Company, Birmingham, Alabama
St. Lawrence Gas Company, Inc., Massena, New York
Texas Gas Transmission Corporation, Owensboro, Kentucky
Washington Gas Light Company, Washington, D.C.

MACHINERY (OTHER THAN ELECTRICAL)

A.P.V. Crepaco, Tonowanda, New York (also classed with Engineering Services)
Artisan Industries Inc., Waltham, Massachusetts
Automatic Feed Co., Napoleon, Ohio
C-E Cast Equipment Division, Combustion Engineering, Inc., Cleveland, Ohio
FES Inc., York, Pennsylvania
Gehl Company, West Bend, Wisconsin
Leybold Vacuum Products, Inc., Export, Pennsylvania
Mahaffey & Harder, Fairfield, New Jersey
Manitowoc Engineering Company, Manitowoc, Wisconsin
Rotary/Recip Compressor Division, Ingersoll-Rand, Davidson, North Carolina
Schramm, Inc., West Chester, Pennsylvania (also classed with Fabricated Metal Products)
Smith Berger Marine, Inc., Seattle, Washington (also classed with Fabricated Metal Products)
Sta-Rite Industries, Inc. Water Equipment Division, Delavan, Wisconsin (also classed with Electrical Machinery)

OTHER DURABLE GOODS MANUFACTURERS

Abitibi-Price Corporation, Building Products Division, Troy, Michigan (also classed with Chemicals)
General Dynamics Corporation, Electric Boat Division, Groton, Connecticut
Kimble Glass, Inc. Subsidiary of Owens-Illinois, Inc., Vineland, New Jersey
LTV Steel Company, Inc., Cleveland, Ohio
Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee (also classed with Engineering Services)
Martin Marietta Energy Systems, Inc., Piketon, Ohio (also classed with Chemicals)
O-Z/Gedney Company, General Signal Corporation, Terryville, Connecticut
Pathfinder Mines Corp., Riverton, Wyoming
Price Brothers Company, Dayton, Ohio
Raymond Corporation, Greene, New York
Riley Consolidated, Inc., Worcester, Massachusetts
U.S. Reduction Company, Munster, Indiana
Weyerhaeuser Research, Development, and Engineering, Tacoma, Washington (primary classification: Other Nondurable Goods)

OTHER NONDURABLE GOODS MANUFACTURERS

Bowater Incorporated, Southern Division, Calhoun, Tennessee
Consolidated Papers, Wisconsin Rapids, Wisconsin
Cooper Tire & Rubber Company, Findlay, Ohio
DeKalb-Pfizer Genetics, DeKalb, Illinois
Lord Corporation, Erie, Pennsylvania
Weyerhaeuser Research, Development, and Engineering, Tacoma, Washington (also classed with Durable Goods)

OTHER NON-MANUFACTURING (included in All Non-Manufacturing and All Industries summary sectors)

American Society for Biochemistry and Molecular Biology, Inc., Bethesda, Maryland
American Society of Naval Engineers, Alexandria, Virginia
Hecla Mining Company, Coeur d'Alene, Idaho
Kiewit Mining Group, Inc., Omaha, Nebraska
Marine Midland Bank, N.A., New York, New York
National Bulk Carriers, Inc., New York, New York

PETROLEUM

Alta Energy Corporation, Midland, Texas
BP Exploration, Dallas, Texas
Burk Royalty Co., Wichita Falls, Texas
Chevron Corporation, San Francisco, California (also classed with Research Organizations)
Dugan Production Corporation, Farmington, New Mexico (also classed with Consultants)
Enron Liquid Fuels, Houston, Texas
MESA Operating Limited Partnership, Amarillo, Texas
Sundstrand Fluid Handling Company, Arvada, Colorado
Total Petroleum, Inc., Denver, Colorado
Linnhoff March, Inc., Leesburg, Virginia (primary classification: Chemicals)

PRECISION INSTRUMENTS

Advanced Mechanical Technology Inc., Newton, Massachusetts (also classed with Research Organizations)
Belfort Instrument Company, Baltimore, Maryland (also classed with Electronic Equipment)
Clifton Precision Instruments and Life Support, Davenport, Iowa (also classed with Aerospace)
Contraves Goerz Corporation, Pittsburgh, Pennsylvania (also classed with Electronic Equipment)
Dwyer Instruments, Inc., Michigan City, Indiana (also classed with Electrical Machinery)
Ithaco, Inc., Ithaca, New York

RESEARCH ORGANIZATIONS AND LABORATORIES

Advanced Mechanical Technology Inc., Newton, Massachusetts (primary classification: Precision Instruments)
Aerospace Corporation, Los Angeles, California
Applied Technology Associates, Albuquerque, New Mexico (primary classification: Engineering Services)
AT&T Bell Laboratories, Short Hills, New Jersey
Autoresearch Labs, Inc., Chicago, Illinois
Brookhaven National Laboratory, Upton, New York
Chevron Corporation, San Francisco, California (primary classification: Petroleum)
Communications Satellite Corporation, COMSAT Laboratories, Clarksburg, Maryland
CSA Engineering Inc., Palo Alto, California (primary classification: Engineering Services)
Dictaphone Corporation, Stratford, Connecticut (primary classification: Electronic Equipment)
Duracell Research Center, Needham, Massachusetts
EG&G Energy Measurements, Las Vegas, Nevada
ERIM (Environmental Research Institute of Michigan), Ann Arbor, Michigan
Exxon Research & Engineering Co., Florham Park, New Jersey
Fermi National Accelerator Laboratory, Batavia, Illinois
HRB Systems, Inc., State College, Pennsylvania
Institute for Defense Analyses, Alexandria, Virginia
Institute of Gas Technology, Chicago, Illinois
Iowa State University, Ames Laboratory, Ames, Iowa
Jet Propulsion Laboratory, Pasadena, California
Lanxide Corporation, Newark, Delaware
Lawrence Livermore National Laboratory, Livermore, California
National Radio Astronomy Observatory, Charlottesville, Virginia
New Mexico Engineering Research Institute, Albuquerque, New Mexico
Ocean & Atmospheric Science, Dobbs Ferry, New York (primary classification: Electronic Equipment)
Optron Systems, Inc., Bedford, Massachusetts
RAND Corporation, Santa Monica, California

Re/Spec, Inc., Rapid City, South Dakota
Riverside Research Institute, New York, New York (primary classification: Engineering Services)
Sandia National Laboratories, Livermore, California
Sandia National Laboratories, Albuquerque, New Mexico
SBC Technology Resources, Inc., St. Louis, Missouri
Syracuse Research Corporation, Syracuse, New York
Teledyne Brown Engineering, R&D Group, Huntsville, Alabama
Thomas/Scifers, Inc., Manhattan Beach, California (primary classification: Aerospace)
University of Dayton Research Institute, Dayton, Ohio
University of Tennessee Space Institute, Energy Conservation Program, Tullahoma, Tennessee (also classed with Engineering Services)

1989 SALARY SURVEY PARTICIPANTS: GOVERNMENT AGENCIES

FEDERAL GOVERNMENT

Computer Systems Lab, National Institutes of Health/DCRT, Bethesda, Maryland
Department of State/Bureau of Administration, Washington, D.C.
National Institute of Standards & Technology, Gaithersburg, Maryland
USAF: Ogden Air Logistics Center, Hill AFB, Ogden, Utah
USN: Naval Air Propulsion Center, Trenton, New Jersey
USN: Navy Public Works Center Engineering Department, Norfolk, Virginia
USN: Charleston Naval Shipyard, Charleston, South Carolina
USN: Philadelphia Naval Shipyard, Philadelphia, Pennsylvania
Veterans Administration Medical Center, San Diego, California
Western Area Power Administration, Boulder City, Nevada

STATE GOVERNMENT

Arkansas Highway Transportation Department, Little Rock
California Department of Transportation, Sacramento
Delaware Division of Water Resources (DNREC), Surface Water Management Section, Dover
Indiana Department of Natural Resources, Division of Water, Indianapolis
Iowa State Department of Transportation, Ames
Minnesota State Department of Transportation, St. Paul
New Hampshire Department of Transportation, Concord
North Carolina Department of Transportation, Raleigh
Ohio State Department of Transportation, Columbus
Utah State Department of Transportation, Salt Lake City
Virginia State Health Department, Richmond

LOCAL GOVERNMENT

Dallas Area Rapid Transit (DART), Dallas, Texas
Dayton Department of Urban Development, Division of Engineering, Dayton, Ohio
Johnson County Unified Wastewater Districts, Shawnee Mission, Kansas
Kansas City Public Works Department, Kansas City, Missouri
Louisville Water Company, Louisville, Kentucky
Metropolitan Utilities District, Omaha, Nebraska (primary classification: Gas Utilities)
Milwaukee Bureau of Engineers, Milwaukee, Wisconsin
North Jersey District Water Supply Company, Wanaque, New Jersey
San Francisco Utilities Engineering Bureau, San Francisco, California

AAES

AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES
415 SECOND STREET, NE • SUITE 200 • WASHINGTON, DC 20002 • (202) 546-2237

Richard A. Ellis
Director, Manpower Studies

ENGINEERING MANPOWER COMMISSION
Donald C. Brown, Chairman

COMPENSATION COMMITTEE:
Donald C. Brown
William E. Lovett
Robert L. Ohrtman
Michael B. Rubin
Robert Rusek

February, 1989

Dear Colleague:

Enclosed are the forms for the Engineering Manpower Commission's 23rd survey of the salaries of engineers. NOTE THAT THE DEADLINE DATE HAS BEEN MOVED UP TO APRIL 1, 1989. This still allows plenty of time to prepare a reply. Last year, printed reports for this project were released in late September; with your help, we can provide results for 1989 by the end of July.

EMC's compensation surveys have been used for years as authoritative benchmarks for industry, government agencies, educational institutions, the press, engineering students, and others. In the last four years, our coverage of engineers in industry has increased by more than 50 percent, to over 110,000 people. At the same time, the content of the survey has been enhanced, and we have accelerated production of the results.

In 1989, we also hope to make data from the study available in the form of text files on floppy disk media. It may be possible for us to furnish these products in advance of the release of the printed reports. Prices and other particulars for the machine-readable data are still being worked out; contact us after April 15 for more information.

We invite your organization to participate in this project. As in the past, all participants will receive copies of the EMC manpower bulletin reporting the general results of the survey, and participants will also be entitled to substantial discounts in the prices of our detailed reports.

We appreciate the support we are obtaining from engineering employers for this survey, and we look forward to your participation in 1989.

Best regards,

Richard A. Ellis

R. A. Ellis, Director
Manpower Studies

ENGINEERING — RENEWING AMERICA THROUGH TECHNOLOGY AND INNOVATION

DEADLINE:
APRIL 1, 1989
DATA ENTRY BEGINS MARCH 1
YOUR PROMPT RESPONSE WILL
HELP US ACCELERATE RELEASE
OF THE RESULTS BY JULY 1989

PROFESSIONAL INCOME OF ENGINEERS - 1989

A Survey Conducted by the
ENGINEERING MANPOWER COMMISSION
American Association of Engineering Scсieties, Inc.
(202) 546-2237

DEADLINE:
APRIL 1, 1989
DATA ENTRY BEGINS MARCH 1
YOUR PROMPT RESPONSE WILL
HELP US ACCELERATE RELEASE
OF THE RESULTS BY JULY 1989

FORM A - to be used with Form B
Questionnaire Form for Engineering Graduates in NON-SUPERVISORY Positions Only

Have you considered sending in your data on a floppy disk? See the instructions on the last page of this form for more information.

If your organization employs no more than 50 engineers, you may elect to use the optional Form "C."

Otherwise, complete this form and Form "B," as follows:

1. IDENTIFICATION DATA: Unidentified forms cannot be included in the survey results. Confidentiality of your data is assured by EMC.
   - A. Is the name of the REPORTING ORGANIZATION on the mailing label affixed below correct? If not, please enter correct name here: ______
   - B. Is the ADDRESSEE'S name and title correct? (This person receives the survey forms and participant's bulletins.) If not, correct here: ______
   - C. Enter ADDRESSEE'S phone number: ______
   - D. If someone other than the addressee is responsible for the data, enter their NAME, TITLE, and PHONE NUMBER here: ______
   - E. If there are errors in the ADDRESS — street, mail stop, city, state, zip code, etc. — please enter corrections here: ______
2. CLASSIFICATION DATA: This information is needed to group data by industry sectors, size of organizations, and geography:
   - A. Total number of ALL employees in organization/unit, to measure organization's size *(approximations are okay)*: ______
   - B. Total number of NON-SUPERVISORY engineers reported on this Form A: ______
   - C. List the States in which these engineers are PREDOMINANTLY employed, for the purpose of determining regional salary differences: ______ ______
   - D. If any employed NON-SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: ______ . . . and the REASON for omission: ______
   - E. PRODUCT OR SERVICE CODES: Use as many as necessary to describe the organization (see below for categories): Primary: ______ Secondary: ______ Other: ______

MANUFACTURING INDUSTRY GROUPS, BY PRODUCT AREAS:

31 Aerospace
37 Automotive
35 Business Machines
51 Ceramic Products: Stone, Clay, Glass, Cement
11 Chemicals, Drugs, Plastics
27 Computer Hardware/Software
21 Electrical Machinery and Equipment
26 Electronic Equipment
52 Food Products
34 Instruments (precision)
56 Lumber & Wood Products
59 Other Manufacturing: Specific Product(s): ______
36 Machinery (other than electrical)
42 Metal Products, Fabricated
41 Metals, Basic
53 Paper Products
18 Petroleum
46 Railroad Equipment
55 Rubber & Plastic
52 Food products Products, Fabricated
38 Shipbuilding
54 Textile Products

NON-MANUFACTURING, BY SERVICE AREA:

88 Business, Trade, Publishing
81 Communication Services
88 Construction
71 Consultants, Engineering & Architectural
72 Engineering Services, Other: Specify: ______
61 Mining
74 Research Organizations/Laboratories
84 Transportation Services
86 Electric Utilities (including mixed)
87 Gas Utilities & Pipelines
89 Other Non-Manufacturing: Specify ______

GOVERNMENT AGENCIES, BY LEVEL:

01 Federal
02 State
03 Local

NON PROFIT INSTITUTIONS:

94 Professional Societies
95 Other Non Profit Institution: Specify: ______

ALL OTHERS:

96 Specify nature of organization: ______

3. EMC collects data on BASE SALARY ONLY. What PERCENTAGE of the NON-SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in **1988**? Rough estimates are okay: ______

COMPLETE THE INSIDE PAGES OF THIS FORM.
ALSO COMPLETE FORM B. RETURN THE FORMS TO:

ENGINEERING MANPOWER COMMISSION
AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES
415 2nd STREET, N.E., WASHINGTON, D.C. 20002

A Business Reply Envelope is provided for your convenience.

DEADLINE: APRIL 1, 1989. Data entry begins MARCH 1. Your prompt response will help us accelerate release of the results by July, 1989.

FORM A

PRESENT SALARY OF NON-SUPERVISORY ENGINEERING GRADUATES

IMPORTANT - please read carefully before filling out form. Do NOT enter salary amounts; enter the number of persons in the salary-and-experience bracket. See sample form on the last page.

This form gives the distribution of employed engineering graduates as a function of salary bracket, highest degree held, and years of experience as measured since graduation with a bachelor's degree. Salary brackets are indicated at the left of each row — *note that some brackets include a wider salary range than others.* Separate sections of the form are set aside for each degree level — bachelor, master, or doctor. Individuals are to be reported in the section corresponding to highest degree level, but within each section they are to be reported in the column for their *year of graduation with bachelor's degree*, to give a common basis for comparison. If year of graduation cannot be given, report by age (average 1988 graduate is 23, etc.). Data for those graduating in the 1st quarter of 1989 should be combined with that for 1988 graduates. See the sample filled-out form for an illustration.

SALARY - should include base salary before deductions, and any regular allowances such as cost of living differential, etc. Do not include unpredictable payments for overtime work, stock options, bonuses, etc. Rates should be those in effect on February 1, 1989.

NON-SUPERVISORY ENGINEERS - should include all engineering graduates whose duties are NOT primarily supervisory or managerial. It is recognized that the precise definition of this group will vary somewhat from company to company. *Please include non-supervisory engineering graduates who are currently in non-technical positions.* If any engineering graduates must be omitted, please describe on line 2D on the first page of this form. *Do not report part-time employees.*

	ANNUAL SALARY		YEAR OF BACCALAUREATE DEGREE (OR AGE)																		
	BACHELORS DEGREE HIGHEST HELD		1988 (23)	1987 (24)	1986 (25)	1985 (26)	1984 (27)	1983 (28)	1982 (29)	1981 (30)	1980 (31)	1977-1979 (32-34)	1974-1976 (35-37)	1971-1973 (38-40)	1968-1970 (41-43)	1965-1967 (44-46)	1962-1964 (47-49)	1959-1961 (50-52)	1956-1958 (53-57)	UP TO 1955 (58+)	
101	$125,000 & over																				101
102	$100,000-124,999	$5,000 intervals																			102
103	$95,000-99,999																				103
104	$90,000-94,999																				104
105	$85,000-89,999																				105
106	$80,000-84,999																				106
107	$76,000-79,999	$4,000 intervals																			107
108	$72,000-75,999																				108
109	$68,000-71,999																				109
110	$64,000-67,999																				110
111	$60,000-63,999																				111
112	$56,000-59,999																				112
113	$53,000-55,999	$3,000 intervals																			113
114	$50,000-52,999																				114
115	$47,000-49,999																				115
116	$44,000-46,999																				116
117	$41,000-43,999																				117
118	$38,000-40,999																				118
119	$36,000-37,999	$2,000 intervals																			119
120	$34,000-35,999																				120
121	$32,000-33,999																				121
122	$30,000-31,999																				122
123	$28,000-29,999																				123
124	$26,000-27,999																				124
125	$24,000-25,999																				125
126	$22,000-23,999																				126
127	Less than $22,000																				127

MASTERS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

201	$125,000 & over																				201
202	$100,000-124,999	$5,000 intervals																			202
203	$95,000-99,999																				203
204	$90,000-94,999																				204
205	$85,000-89,999																				205
206	$80,000-84,999																				206
207	$76,000-79,999	$4,000 intervals																			207
208	$72,000-75,999																				208
209	$68,000-71,999																				209
210	$64,000-67,999																				210
211	$60,000-63,999																				211
212	$56,000-59,999																				212
213	$53,000-55,999	$3,000 intervals																			213
214	$50,000-52,999																				214
215	$47,000-49,999																				215
216	$44,000-46,999																				216
217	$41,000-43,999																				217
218	$38,000-40,999																				218
219	$36,000-37,999	$2,000 intervals																			219
220	$34,000-35,999																				220
221	$32,000-33,999																				221
222	$30,000-31,999																				222
223	$28,000-29,999																				223
224	$26,000-27,999																				224
225	$24,000-25,999																				225
226	$22,000-23,999																				226
227	Less than $22,000																				227

DOCTORS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

301	$125,000 & over																				301
302	$100,000-124,999	$5,000 intervals																			302
303	$95,000-99,999																				303
304	$90,000-94,999																				304
305	$85,000-89,999																				305
306	$80,000-84,999																				306
307	$76,000-79,999	$4,000 intervals																			307
308	$72,000-75,999																				308
309	$68,000-71,999																				309
310	$64,000-67,999																				310
311	$60,000-63,999																				311
312	$56,000-59,999																				312
313	$53,000-55,999	$3,000 intervals																			313
314	$50,000-52,999																				314
315	$47,000-49,999																				315
316	$44,000-46,999																				316
317	$41,000-43,999																				317
318	$38,000-40,999																				318
319	$36,000-37,999	$2,000 intervals																			319
320	$34,000-35,999																				320
321	$32,000-33,999																				321
322	$30,000-31,999																				322
323	$28,000-29,999																				323
324	$26,000-27,999																				324
325	$24,000-25,999																				325
326	$22,000-23,999																				326
327	Less than $22,000																				327

DEADLINE:
APRIL 1, 1989
DATA ENTRY BEGINS MARCH 1
YOUR PROMPT RESPONSE WILL
HELP US ACCELERATE RELEASE
OF THE RESULTS BY JULY 1989

PROFESSIONAL INCOME OF ENGINEERS - 1989

A Survey Conducted by the
ENGINEERING MANPOWER COMMISSION
American Association of Engineering Societies, Inc.
(202) 546-2237

DEADLINE:
APRIL 1, 1989
DATA ENTRY BEGINS MARCH 1
YOUR PROMPT RESPONSE WILL
HELP US ACCELERATE RELEASE
OF THE RESULTS BY JULY 1989

FORM B - to be used with Form A
Questionnaire Form for Engineering Graduates in SUPERVISORY Positions Only

Have you considered sending in your data on a floppy disk? See the instructions on the last page of this form for more information. If your organization employs no more than 50 engineers, you may elect to use the optional Form "C." Otherwise, complete Form A, then complete this form. NOTE: Items 2B, 2D, and 3 require SEPARATE answers on BOTH forms. If you have answered all other questions on Form A, you need not repeat that information here.

1. IDENTIFICATION DATA: Unidentified forms cannot be included in the survey results. Confidentiality of your data is assured by EMC.
   A. Is the name of the REPORTING ORGANIZATION on the mailing label affixed below correct? If not, please enter correct name here: ____________
   B. Is the ADDRESSEE'S name and title correct? (This person receives the survey forms and participant's bulletins.) If not, correct here: ____________
   C. Enter ADDRESSEE'S phone number: ____________
   D. If someone other than the addressee is responsible for the data, enter their NAME, TITLE, and PHONE NUMBER here: ____________
   E. If there are errors in the ADDRESS — street, mail stop, city, state, zip code, etc. — please enter corrections here: ____________

2. CLASSIFICATION DATA: This information is needed to group data by industry sectors, size of organizations, and geography:
   A. Total number of ALL employees in organization/unit, to measure organization's size *(approximations are okay)*: ____________
   B. Total number of SUPERVISORY engineers reported on this Form B: ____________
   C. List the States in which these engineers are PREDOMINANTLY employed, for the purpose of determining regional salary differences: ____________
   D. If any employed SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: ________ . . . and the REASON for omission: ____________
   E. PRODUCT OR SERVICE CODES: Use as many as necessary to describe the organization (see below for categories):
      Primary: ____________ Secondary: ____________ Other: ____________

MANUFACTURING INDUSTRY GROUPS, BY PRODUCT AREAS:

31 Aerospace
37 Automotive
35 Business Machines
51 Ceramic Products: Stone, Clay, Glass, Cement
11 Chemicals, Drugs, Plastics
27 Computer Hardware/Software
21 Electrical Machinery and Equipment
28 Electronic Equipment
52 Food Products
34 Instruments (precision)
56 Lumber & Wood Products
59 Other Manufacturing: Specific Product(s): ____________
38 Machinery (other than electrical)
42 Metal Products, Fabricated
41 Metals, Basic
53 Paper Products
18 Petroleum
48 Railroad Equipment
55 Rubber & Plastic
52 Food products Products, Fabricated
38 Shipbuilding
54 Textile Products

NON-MANUFACTURING, BY SERVICE AREA:

88 Business, Trade, Publishing
81 Communication Services
88 Construction
71 Consultants, Engineering & Architectural
72 Engineering Services, Other: Specify: ____________
61 Mining
74 Research Organizations/Laboratories
84 Transportation Services
86 Electric Utilities (including mixed)
87 Gas Utilities & Pipelines
89 Other Non-Manufacturing: Specify ____________

GOVERNMENT AGENCIES, BY LEVEL:

01 Federal
02 State
03 Local

NON PROFIT INSTITUTIONS:

94 Professional Societies
95 Other Non Profit Institution: Specify: ____________

ALL OTHERS:

96 Specify nature of organization: ____________

3. EMC collects data on BASE SALARY ONLY. What PERCENTAGE of the SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in 1988? Rough estimates are okay: ____________

COMPLETE THE INSIDE PAGES OF THIS FORM.
ALSO COMPLETE FORM A. RETURN THE FORMS TO:

ENGINEERING MANPOWER COMMISSION
AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES
415 2nd STREET, N.E., WASHINGTON, D.C. 20002

A Business Reply Envelope is provided for your convenience.

DEADLINE: APRIL 1, 1989. Data entry begins MARCH 1. Your prompt response will help us accelerate release of the results by July, 1989.

FORM B

PRESENT SALARY OF SUPERVISORY ENGINEERING GRADUATES ONLY

IMPORTANT - please read carefully before filling out form. Do NOT enter salary amounts; enter the number of persons in the salary-and-experience bracket. See sample form on the last page.

This form gives the distribution of employed engineering graduates as a function of salary bracket, highest degree held, and years of experience as measured since graduation with a bachelor's degree. Salary brackets are indicated at the left of each row — *note that some brackets include a wider salary range than others.* Separate sections of the form are set aside for each degree level — bachelor, master, or doctor. Individuals are to be reported in the section corresponding to highest degree level, but within each section they are to be reported in the column for their *year of graduation with bachelor's degree,* to give a common basis for comparison. If year of graduation cannot be given, report by age (average 1988 graduate is 23, etc.). Data for those graduating in the 1st quarter of 1989 should be combined with that for 1988 graduates. See the sample filled-out form for an illustration.

SALARY - should include base salary before deductions, and any regular allowances such as cost of living differential, etc. Do not include unpredictable payments for overtime work, stock options, bonuses, etc. Rates should be those in effect on February 1, 1989.

SUPERVISORY ENGINEERS - should include all engineering graduates whose duties are primarily supervisory or managerial. It is recognized that the precise definition of this group will vary somewhat from company to company. *Please report all supervisory engineering graduates, including those who are in general management or non-technical positions.* If any must be omitted, please describe them on line 2D of the first page of this form. *Do not report part-time employees.*

	ANNUAL SALARY		YEAR OF BACCALAUREATE DEGREE (OR AGE)																		
	BACHELORS DEGREE HIGHEST HELD		1988 (23)	1987 (24)	1986 (25)	1985 (26)	1984 (27)	1983 (28)	1982 (29)	1981 (30)	1980 (31)	1977-1979 (32-34)	1974-1976 (35-37)	1971-1973 (38-40)	1968-1970 (41-43)	1965-1967 (44-46)	1962-1964 (47-49)	1959-1961 (50-52)	[illegible] (53-57)	UP TO [illegible] (58+)	
101	$125,000 & over																				101
102	$100,000-124,999	$5,000 intervals																			102
103	$95,000-99,999																				103
104	$90,000-94,909																				104
105	$85,000-89,999																				105
106	$80,000-84,999																				106
107	$76,000-79,999	$4,000 intervals																			107
108	$72,000-75,999																				108
109	$68,000-71,999																				109
110	$64,000-67,999																				110
111	$60,000-63,999																				111
112	$56,000-59,999																				112
113	$53,000-55,999	$3,000 intervals																			113
114	$50,000-52,999																				114
115	$47,000-49,999																				115
116	$44,000-46,999																				116
117	$41,000-43,999																				117
118	$38,000-40,999																				118
119	$36,000-37,999	$2,000 intervals																			119
120	$34,000-35,999																				120
121	$32,000-33,999																				121
122	$30,000-31,999																				122
123	$28,000-29,999																				123
124	$26,000-27,999																				124
125	$24,000-25,999																				125
126	$22,000-23,999																				126
127	Less than $22,000																				127

MASTERS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

201	$125,000 & over																				201
202	$100,000-124,999	$5,000 intervals																			202
203	$95,000-99,999																				203
204	$90,000-94,999																				204
205	$85,000-89,999																				205
206	$80,000-84,999																				206
207	$76,000-79,999	$4,000 intervals																			207
208	$72,000-75,999																				208
209	$68,000-71,999																				209
210	$64,000-67,999																				210
211	$60,000-63,999																				211
212	$56,000-59,999																				212
213	$53,000-55,999	$3,000 intervals																			213
214	$50,000-52,999																				214
215	$47,000-49,999																				215
216	$44,000-46,999																				216
217	$41,000-43,999																				217
218	$36,000-40,999																				218
219	$36,000-37,999	$2,000 intervals																			219
220	$34,000-35,999																				220
221	$32,000-33,999																				221
222	$30,000-31,999																				222
223	$28,000-29,999																				223
224	$26,000-27,999																				224
225	$24,000-25,999																				225
226	$22,000-23,999																				226
227	Less than $22,000																				227

DOCTORS DEGREE HIGHEST HELD (REPORT UNDER YEAR OF BACCALAUREATE DEGREE OR AGE, AS ABOVE)

301	$125,000 & over																				301
302	$100,000-124,999	$5,000 intervals																			302
303	$95,000-99,999																				303
304	$90,000-94,999																				304
305	$85,000-89,999																				305
306	$80,000-84,999																				306
307	$76,000-79,999	$4,000 intervals																			307
308	$72,000-75,999																				308
309	$68,000-71,999																				309
310	$64,000-67,999																				310
311	$60,000-63,999																				311
312	$56,000-59,999																				312
313	$53,000-55,999	$3,000 intervals																			313
314	$50,000-52,999																				314
315	$47,000-49,999																				315
316	$44,000-46,999																				316
317	$41,000-43,999																				317
318	$38,000-40,999																				318
319	$36,000-37,999	$2,000 intervals																			319
320	$34,000-35,999																				320
321	$32,000-33,999																				321
322	$30,000-31,999																				322
323	$28,000-29,999																				323
324	$26,000-27,999																				324
325	$24,000-25,999																				325
326	$22,000-23,999																				326
327	Less than $22,000																				327

DEADLINE:
APRIL 1, 1989
DATA ENTRY BEGINS MARCH 1
YOUR PROMPT RESPONSE WILL
HELP US ACCELERATE RELEASE
OF THE RESULTS BY JULY 1989

PROFESSIONAL INCOME OF ENGINEERS - 1989

A Survey Conducted by the
ENGINEERING MANPOWER COMMISSION
American Association of Engineering Societies, Inc.
(202) 546-2237

DEADLINE:
APRIL 1, 1989
DATA ENTRY BEGINS MARCH 1
YOUR PROMPT RESPONSE WILL
HELP US ACCELERATE RELEASE
OF THE RESULTS BY JULY 1989

FORM C - Optional Short Form, used in place of both Forms A and B

For organizations with no more than 50 engineers, including both supervisors and non-supervisors

Have you considered sending in your data on a floppy disk? See the instructions on the last page of this form for more information.

1. IDENTIFICATION DATA: Unidentified forms cannot be included in the survey results. Confidentiality of your data is assured by EMC.
   - A. Is the name of the REPORTING ORGANIZATION on the mailing label affixed below correct? If not, please enter correct name here: ____________
   - B. Is the ADDRESSEE'S name and title correct? (This person receives the survey forms and participant's bulletins.) If not, correct here: ____________
   - C. Enter ADDRESSEE'S phone number: ____________
   - D. If someone other than the addressee is responsible for the data, enter their NAME, TITLE, and PHONE NUMBER here: ____________
   - E. If there are errors in the ADDRESS — street, mail stop, city, state, zip code, etc. — please enter corrections here: ____________

2. CLASSIFICATION DATA: This information is needed to group data by industry sectors, size of organizations, and geography:
   - A. Total number of ALL employees in organization/unit, to measure organization's size *(approximations are okay)*: ____________
   - B. List the States in which these engineers are PREDOMINANTLY employed, for the purpose of determining regional salary differences: ____________
   - C. If any employed NON-SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: ________ . . . and the REASON for omission: ____________
   - D. If any employed SUPERVISORY engineering graduates are NOT included in this report, please indicate the number of such employees: ________ . . . and the REASON for omission: ____________
   - E. PRODUCT OR SERVICE CODES: Use as many as necessary to describe the organization (see below for categories):
     Primary: ____________ Secondary: ____________ Other: ____________

MANUFACTURING INDUSTRY GROUPS, BY PRODUCT AREAS:

31 Aerospace
37 Automotive
35 Business Machines
51 Ceramic Products: Stone, Clay, Glass, Cement
11 Chemicals, Drugs, Plastics
27 Computer Hardware/Software
21 Electrical Machinery and Equipment
26 Electronic Equipment
52 Food Products
34 Instruments (precision)
56 Lumber & Wood Products
59 Other Manufacturing: Specific Product(s): ____________
36 Machinery (other than electrical)
42 Metal Products, Fabricated
41 Metals, Basic
53 Paper Products
18 Petroleum
46 Railroad Equipment
55 Rubber & Plastic
52 Food products Products, Fabricated
38 Shipbuilding
54 Textile Products

NON-MANUFACTURING, BY SERVICE AREA:

88 Business, Trade, Publishing
81 Communication Services
88 Construction
71 Consultants, Engineering & Architectural
72 Engineering Services, Other: Specify: ____________
61 Mining
74 Research Organizations/Laboratories
84 Transportation Services
86 Electric Utilities (including mixed)
87 Gas Utilities & Pipelines
89 Other Non-Manufacturing: Specify ____________

GOVERNMENT AGENCIES, BY LEVEL:

01 Federal
02 State
03 Local

NON PROFIT INSTITUTIONS:

94 Professional Societies
95 Other Non Profit Institution: Specify: ____________

ALL OTHERS:

96 Specify nature of organization: ____________

3. EMC collects data on BASE SALARY ONLY: A. What PERCENTAGE of the NON-SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in 1988? Rough estimates are okay: ________
   B. What PERCENTAGE of the SUPERVISORY engineers reported on this form also received significant bonuses or other forms of special incentive compensation in 1988, that is, last year? Rough estimates are okay: ____________

COMPLETE THE INSIDE PAGES OF THIS FORM.
RETURN THE FORM TO:

ENGINEERING MANPOWER COMMISSION
AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES
415 2nd STREET, N.E., WASHINGTON, D.C. 20002

A Business Reply Envelope is provided for your convenience.

DEADLINE: APRIL 1, 1989. Data entry begins MARCH 1. Your prompt response will help us accelerate release of the results by July, 1989.

FORM C

PRESENT SALARY OF ENGINEERING GRADUATES

Optional Short Form for UP TO 50 supervisors and/or non-supervisors

IMPORTANT — please read carefully before filling out form.

This form replaces EMC'S traditional matrix style instruments, which allow entry of data for large engineering staffs of up to several thousand persons, in order to provide a simpler data entry form for small organizations. Simply complete one line of the form for each engineer to be reported.

ALL indicated data is needed. NO other data is needed. Please do NOT write names on these forms.

SUPERVISORS include all engineering graduates whose duties are primarily supervisory or managerial. Other engineers are NON-SUPERVISORS. It is recognized that the precise definition of these terms will vary somewhat from company to company. Please include engineering graduates who are currently in general management or non-technical positions. If any engineering graduates must be omitted, please describe on page 1 of this form. DO NOT REPORT PART-TIME EMPLOYEES. Only "S" or "N" should appear in the first column of the form.

EMC measures experience as the number of years since receiving the bachelor's degree. If that date is not available, age is used to estimate it. If you can provide both the year and age data, EMC will use this information to improve its estimation procedures. Either data element will suffice, however.

ANNUAL SALARY — should include base salary before deductions, and any regular allowances such as cost of living differential, etc. Rates should be those in effect on February 1, 1989.

If you use this form, your copies of Forms A and B may be discarded. PLEASE do not use this form to report more than 50 engineers. Make up a disk-based response instead (the format is virtually identical), or use Forms A and B.

	Supervisor (S) or Non-supervisor (N)? Enter S or N	Highest Degree Held B = Bachelor, M = Master, P = Ph.D Enter B, M, or P	Year graduated with BACHELOR's degree: Enter YEAR	Age as of Feb. 1, 1989: Enter AGE:	Annual Salary as of Feb. 1, 1989: Enter ANNUAL SALARY:
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GENERAL INSTRUCTIONS:

There are three possible ways to respond:

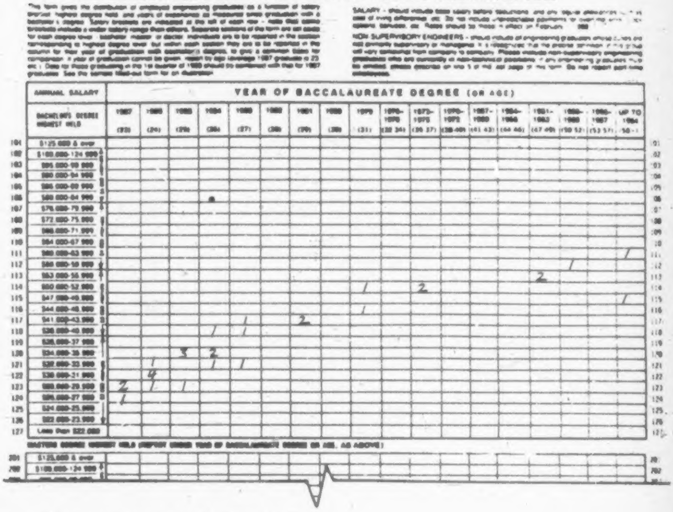
1. It may be possible to easily access your organization's data records to produce a machine-readable file for a common IBM-standard personal computer. See below for further instructions. Don't forget that we must have a copy of page one of the questionnaire, or its equivalent in information on a floppy disk, in order to process the data! EMC much prefers this form of response, as it is faster, more accurate, and ultimately much more convenient for all parties.

2. If your organization has NO MORE THAN 50 engineering graduates, you can choose to simply list them (no names, please) one-by-one on the optional Form C. PLEASE: do not use Form C to report more than 50 engineers. Make up a floppy-based response instead (most word processors will do the job easily — just make sure to save the work as an ASCII "non-document" file), or use Forms A and B.

3. The traditional method is to use EMC's matrix-style Forms A and B. Be sure to complete ALL of the items on page 1 of these forms (you need not duplicate your responses, but NOTE: EACH FORM MUST INCLUDE SEPARATE REPLIES TO QUESTIONS #2B, #2D, AND #3). See the sample of a completed Form A (top third only) at the right.

4. Whatever approach you use, check your responses carefully before returning them to EMC. EMC welcomes inquiries from participants and will provide help for respondents. Call us at the number listed at the top of Page 1 of the form.

Example of a completed Form A (from the 1988 survey)



FORM A

PRESENT SALARY OF NON-SUPERVISORY ENGINEERING GRADUATES

ANNUAL SALARY

YEAR OF BACCALAUREATE DEGREE (OR AGE)

EMC POLICY REGARDING SALARY SURVEY PARTICIPANTS

It is our policy to list the names of the organizations participating in our salary surveys, by sector, so that users will be able to ascertain whether a particular industry group is representative of their own. At the same time, it is our longstanding policy to protect each respondent's data from disclosure to anyone else. To protect the confidentiality of information and to provide adequate safeguards against the disclosure of data identified with any particular survey participant, the following precautions are taken:

1. Company identifications are used only for the purpose of maintaining EMC'S mailing lists and are not entered with the salary data files in our computer. No sector is formed unless at least five responding organizations can be included.

2. The only persons with access to returned salary data forms are the AAES staff who process the surveys. Responding organizations' data are not disclosed to anyone. There are no exceptions to this policy.

3. If a single employer's responses account for more than half of the number of data points — engineers — reported for any group, weighting procedures are used to prevent that employer's information from unduly dominating the statistics for the group.

4. At least 200 engineers must be represented in any data set for engineers in industry or government before statistics for the group will be published.

5. Within data sets, statistics are not generated for particular experience categories unless the bracket includes at least one percent of the total number of engineers for the set AND at least ten engineers are present.

6. EMC does not obtain the names of individual engineers represented by the data. The only names collected are those of the addressees and other contact persons used for our mailing lists, and these names are not published or disclosed.

7. Anonymous responses are not used. Responses requesting that the responding organization not be identified are refused and returned to their originator.

SPECIAL INSTRUCTIONS FOR ORGANIZATIONS PROVIDING SALARY DATA ON FLOPPY DISK MEDIA

EMC is encouraging its salary survey participants to respond by submitting machine-readable files. In 1988, data on over 30,000 engineers were reported in this fashion. Media must be in the form of standard double-sided, double-density 5 1/4" floppy diskettes. We use MS-DOS 3.2; with UNIFORM-PC we can also handle PC and MS-DOS versions 1 and 2, as well as most common CP/M formats. We CANNOT handle 1.2 Mbyte 5 1/4" floppies or the smaller 3" disks.

Floppies should be mailed in appropriate containers (heavy cardboard disk mailers are best). You MUST also enclose a completed copy of PAGE 1 of the questionnaire (Form C is suggested), to provide your organization's ID and classification data. Alternatively, you may provide an ASCII text file on the disk with your responses to the page 1 questions. (Note that some items need separate responses for both supervisors and non-supervisors.) Without these data, your response cannot be processed. Give any such text file the name "SALARY.INF."

Your salary data file should be named "SALARY.DAT" and MUST take the following format:

1. The data file must be pure ASCII.

2. Data must be entered in the form of one line (or record) per engineer, terminated by a CR-LF (carriage return/line feed combination). Don't forget to use the CR-LF after the last line of data.

3. The contents of each line should be as follows:

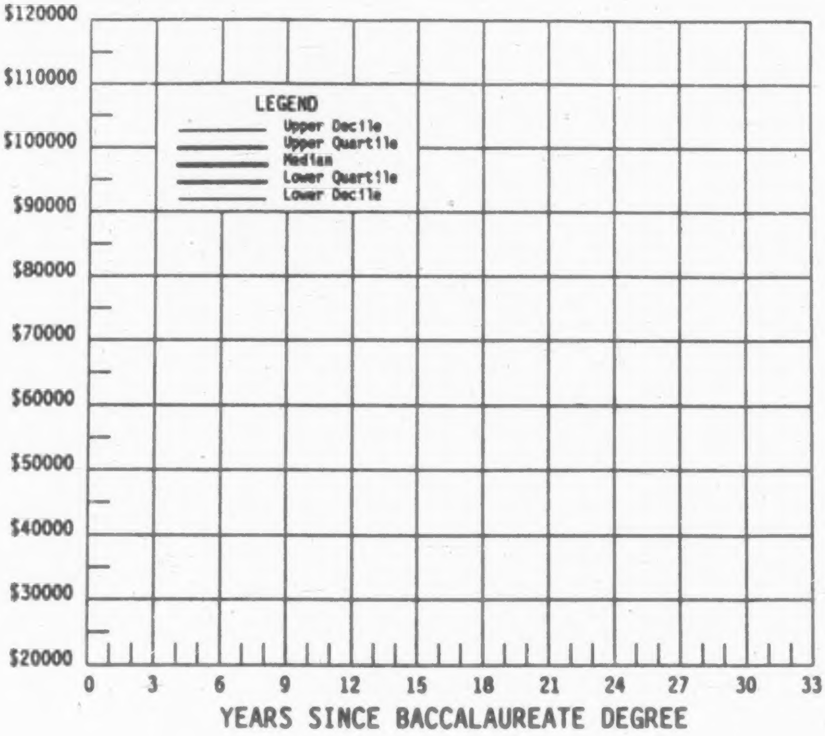
- Character 01: either S or N, for Supervisor or Nonsupervisor.
- Character 02: always a comma.
- Character 03: B, M, or P, for Bachelor, Masters, or Ph.D. degree. If degree is unknown or there is no degree, a B.S. equivalent will be assumed.
- Character 04: always a comma.
- Character 05-06: two digits for YEAR GRADUATED WITH BACHELOR'S DEGREE (last two digits only). If unknown, enter "99" AND enter the age (see next item).
- Character 07: always a comma.
- Characters 08-09: two digits for AGE. If the previous YEAR GRADUATED WITH BACHELOR'S DEGREE item has been provided, this may be treated as an unknown and coded "99." If both the year and the age are provided, EMC will use those data to improve its procedures for using age to estimate the year of graduation with the B.S. degree. Note that the "99" code should be explicitly entered (blanks or zeros will be treated as "99's" IF the preceding YEAR data is supplied).
- Character 10: always a comma.
- Characters 11-16: six digits for annual salary, right-justified and zero-filled. Leading blanks will be treated as zeros. A CR-LF code must follow the entry.

ANY ENTRIES OTHER THAN THOSE DESCRIBED ABOVE WILL BE ASSUMED TO BE ERRORS AND WILL CAUSE THE ENTIRE LINE TO BE IGNORED.

4. There will be as many lines as there are engineers reported. On your enclosed Form "C" or in the added SALARY.INF text file, PLEASE SPECIFY THE TOTAL NUMBER OF ENGINEERS REPORTED BY YOUR COMPANY. Comparison of your counts with our own totals is one of several elementary quality control checks employed by EMC.

5. LABEL your diskette with AT LEAST the following information: your organization's name, the particular diskette format used (we will assume DOS if no other

SALARY CURVES FOR ENGINEERS



RECENT ENGINEERING MANPOWER COMMISSION PUBLICATIONS

Note: EMC surveys are becoming available in the form of machine-readable media. For more information, contact the AAES Publications Department at the address below.

ENGINEERS' SALARIES: SPECIAL INDUSTRY REPORT 1989

A detailed breakdown of engineering salaries according to type of industry, geographic regions, company size, employee experience, highest degree held, and supervisory status. Tables and graphs depict salaries in medians, quartiles, deciles and means.

member price: $169.00 non-member price: $287.50

PROFESSIONAL INCOME OF ENGINEERS 1989

An abridged version of the *Special Industry Report.* Details for salary differences by highest degree held are not included; tabulations are added on engineering compensation in local, state and federal government agencies.

member price: $59.50 non-member price: $97.00

SALARIES OF ENGINEERS IN EDUCATION 1988

Median, quartile, decile and mean salaries across 18 experience brackets for engineering faculty, by academic rank, contract types, and type of institution.

member price: $70.00 non-member price: $112.00

ENGINEERING AND TECHNOLOGY ENROLLMENTS, FALL 1988

A two-volume overview of the enrollment of students in engineering and engineering technology programs throughout the United States. Details by fields of study for specific schools and states, with added tabulations for women, minorities, and foreign nationals.

Complete set: member price: $120.00 non-member price $195.00

Separate volumes:

Part I: Engineering Enrollments: member price: $70.00 non-member price: $115.00

Part II: Technology Enrollments: member price: $70.00 non-member price: $115.00

ENGINEERING AND TECHNOLOGY DEGREES, 1988

A comprehensive report on recent engineering and engineering technology degrees in three volumes. Part I provides general statistics for schools and states on degrees in 40 engineering and technology disciplines. Part II provides similar data for awards to women, minorities, and foreign nationals. Part III includes detailed data for specific curricula.

Complete Set: member price: $140 non-member price: $230.00

Separate volumes:

Part I: by School: member price: $55.00 non-member price: $89.00

Part II: Minorities: member price: $75.00 non-member price: $115.00

Part III: by Curriculum: member price: $55.00 non-member price: $89.00

ENGINEERING MANPOWER BULLETINS

Concise, timely information on trends in engineering salaries, enrollments, degrees, women and minorities in engineering, other topics.

Full subscription year: member price: $66.00 non-member price: $110.00

Single copies: member price: $9.00 non-member price: $14.00

TO ORDER: Member prices are available to members of AAES member societies, employees of Industry Affiliates, and firms/educational institutions that have participated in the study to be purchased. Please include society affiliation and membership number, Industry Affiliate, or survey participant information with your order, if applicable. First class postage (U.S. domestic) is included in the purchase price. Foreign orders add 10%; check must be payable in U.S. funds. Prepayment required; pro forma invoices provided on request. Orders should be directed to the AAES Publications Department, 415 Second St. NE, Washington, D.C. 20002.

ISBN # 0-87615-143-8